Formerly Utilized Sites Remedial Action Program (FUSRAP)

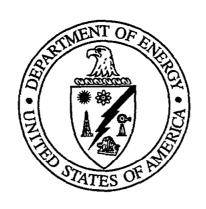
Maywood Chemical Company Superfund Site

ADMINISTRATIVE RECORD

Document Number

MISS-047.





THE U.S. DEPARTMENT OF ENERGY WILL HOLD AN AVAILABILITY SESSION for the MAYWOOD, NEW JERSEY, SITE

Tuesday, June 8, 1993 6:00 p.m. – 9:00 p.m.

at the
DOE Public Information Center
43 West Pleasant Avenue
Maywood, New Jersey

Representatives of DOE are holding an informal public information session to answer any questions you might have about the Maywood Site.

DOE has responsibility for the cleanup of radioactively contaminated properties in Maywood, Rochelle Park, and Lodi under its Formerly Utilized Sites Remedial Action Program (FUSRAP). For directions or for more information, please call the DOE Public Information Center, (201) 843-7466.

Mr. James W. Wagoner, II
Director, Division of Offsite Programs
U.S. DOE-Headquarters
Office of Environmental Restoration
EM-421, HQ, GTN
19901 Germantown Road
Germantown, MD 20874

Mr. Steven L. Wyatt Sr. Public Affairs Specialist U.S. Department of Energy DOE Public Information Office P.O. Box 2001 Oak Ridge, TN 37831-8502 Mr. Jeffrey Gratz
Project Manager
U.S. EPA - Region II
Federal Facilities Section
26 Federal Plaza
New York, NY 10278

Ms. Patricia Seppi Superfund Community Relations Coordinator U.S. EPA - Region II 26 Federal Plaza New York, NY 10278

Mr. Robert J. Wing U.S. EPA - Region II 26 Federal Plaza New York, NY 10278 Mr. Donald Kakas Community Relations Coordinator NJDEPE 401 East State Street Sixth Floor Trenton, NJ 08625 Mr. Robert Hayton Section Chief NJDEPE Bureau of Federal Case Management 401 East State Street Trenton, NJ 08625

Mr. Nicholas Marton Research Scientist NJDEPE Bureau of Federal Case Management 401 East State Street Trenton, NJ 08625

Mr. Bruce Venner
Bureau Chief
NJDEPE
Bureau of Federal Case Management
401 East State Street, CN028
Trenton, NJ 08625

Ms. Adrian Bobrow
U.S. Representative Torricelli's
District Office
Court Plaza North
25 Main Street
Hackensack, NJ 07601

The Honorable Frank J. Lautenberg U.S. Senator District Office Gateway One, 10th Floor Newark, NJ 07102 Mr. Kevin Rigby
State Director
U.S. Senator Bill Bradley's District Office
609 Vauxhall Road, P.O. Box 1720
Union, NJ 07083

The Honorable Marge Roukema U.S. Representative 1200 East Ridgewood Avenue Ridgewood, NJ 07450 The Honorable Byron M. Baer Assemblyman The New Jersey State Assembly District 37 126 State Street Hackensack, NJ 07601

The Honorable James Florio Governor of New Jersey State House Trenton, NJ 08625

The Honorable Louis Koscoe State Senator The New Jersey State Senate District 38 5 Sampson Street 2nd Floor Saddle Brook, NJ 07662

The Honorable Loretta Weinberg Assemblywoman The New Jersey State Assembly District 37 545 Cedar Lane Teaneck, NJ 07666 The Honorable Matthew Feldman State Senator The New Jersey State Senate District 37 Glenpointe Centre West 500 Frank W. Burr Blvd, 4th Floor Teaneck, NJ 07666-6880

The Honorable Rose Marie Heck Assemblywoman The New Jersey State Assembly District 38 2 Mercer Street, Suite 5A Lodi, NJ 07644-1624

The Honorable Patrick Roma Assemblyman The New Jersey State Assembly District 38 40 East Midland Avenue Paramus, NJ 07652 Mr. Tony DeCandia Bergen County Dept. of Health Services 327 Ridgewood Avenue Paramus, NJ 07652

Mr. Richard A. Mola Vice Chairman Board of Freeholders Bergen County Administration Building Hackensack, NJ 07601

The Honorable William P. Schuber County Executive Bergen County 21 Main Street, Room 300E Hackensack, NJ 07061-7000

Mr. Stephen C. Tiffinger Bergen County Dept. of Health Services 327 Ridgewood Avenue Paramus, NJ 07652

The Honorable John F. Zisa Mayor City of Hackensack 65 Central Avenue Hackensack, NJ 07061 Mr. Mark Guarino
Director
Bergen County Dept. of Health Services
327 Ridgewood Avenue
Paramus, NJ 07652

Mr. Charles J. O'Dowd Chairman Board of Freeholders Bergen County Administration Building Hackensack, NJ 07601

Mr Adam Strobel
Assistant to County Executive
Bergen County Administration Building
21 Main Street
Hackensack, NJ 07601

Mr. J. William Van Dyke Board of Freeholders Bergen County Administration Building Hackensack, NJ 07601 Mr. John L. Barrachina Borough Clerk Borough of Lodi One Memorial Drive Lodi, NJ 07644

Mr. Charles S. Cuccia Burough Manager Borough of Lodi One Memorial Drive Lodi, NJ 07644

Mr. Bruce Masopust Council Member Borough of Lodi One Memorial Drive Lodi, NJ 07644

Ms. Joyce Suarez
Sanitarian
Borough of Lodi
Board of Health
One Memorial Drive
Lodi, NJ 07644

Ms. Theresa Civitarese Council Member Borough of Lodi One Memorial Drive Lodi, NJ 07644

Mr. Walter Curioni, Jr. Deputy Mayor Borough of Lodi One Memorial Drive Lodi, NJ 07644

Mr. Gary Papparozzi Council Member Borough of Lodi One Memorial Drive Lodi, NJ 076544

The Honorable Philip V. Toronto Mayor Borough of Lodi One Memorial Drive Lodi, NJ 07644 Mr. Tom Berntson Council Member Maywood Borough Hall 459 Maywood Avenue Maywood, NJ 07607

Ms. Mary Carton Health Inspector Maywood Borough Hall Board of Health 459 Maywood Avenue Maywood, NJ 07607

Mr. Anthony Napoli Council Member Maywood Borough Hall 459 Maywood Avenue Maywood, NJ 07607

Ms. Mary Ann Rampola Borough Clerk Borough of Maywood 459 Maywood Avenue Maywood, NJ 07607

Ms. Anne Salvatore Schmidt Council Member Maywood Borough Hall 459 Maywood Avenue Maywood, NJ 07607

Ms. Joan Winnie Council Member Maywood Borough Hall 459 Maywood Avenue Maywood, NJ 07607 Mr. George Brush Maywood Borough Hall Planning Board 459 Maywood Avenue Maywood, NJ 07607

Ms. Joyce Kenefick Maywood Board of Health Maywood Borough Hall 459 Maywood Avenue Maywood, NJ 07607

Mr. Richard O'Neil Council Member Maywood Borough Hall 459 Maywood Avenue Maywood, NJ 07607

Mr. Michael Ruber Council Member Maywood Borough Hall 459 Maywood Avenue Maywood, NJ 07607

The Honorable John A. Steuert, Jr. Mayor
Borough of Maywood
459 Maywood Avenue
Maywood, NJ 07607

Mr. Robert Cannici Committee Member Township of Rochelle Park 405 Rochelle Avenue Rochelle Park, NJ 07662

Mr. Richard LoCasio
Deputy Mayor
Township of Rochelle Park
405 Rochelle Avenue
Rochelle Park, NJ 07662

Mr. Joseph Manzella Township Administrator Township of Rochelle Park 405 Rochelle Avenue Rochelle Park, NJ 07662

Mr. Robert Rosenkranz
Chairman
Township of Rochelle Park
Rochelle Park Environmental Commission
405 Rochelle Avenue
Rochelle Park, NJ 07662

Ms. Pat Schneider
Township of Rochelle Park
Board of Health
405 Rochelle Avenue
Rochelle Park, NJ 07662

Ms. Virginia DeMaria Township Clerk Township of Rochelle Park 405 Rochelle Avenue Rochelle Park, NJ 07662

Mr. Wilbur Lotz Committee Member Township of Rochelle Park 405 Rochelle Avenue Rochelle Park, NJ 07662

Mr. Patrick Peck Health Inspector Township of Rochelle Park 405 Rochelle Avenue Rochelle Park, NJ 07662

The Honorable Joseph Scarpa Mayor Township of Rochelle Park 405 Rochelle Avenue Rochelle Park, NJ 07662

Ms. Phyllis Strohmeyer Committee Member Township of Rochelle Park 405 Rochelle Avenue Rochelle Park, NJ 07662 Alan Afrown, Esq.
Cumberland Farms, Inc.
777 Dedham Street
Canton, MA 02021

Mr. E. Bradford Beyer Herold Realtors 480 Passaic Street Hackensack, NJ 07601

Mr. Jeffrey Wagner, Esq. Sun Oil Company 1801 Market Street Philadelphia, PA 19103

Mr. H. R. Bohmert President National Community Bank 160/174 Essex Street Lodi, NJ 07644

Mr. Robert Detko
Director of Maintenance
Bristol Manor & White Hall Residence
Rochelle Park, NJ 07662

Mr. Lloyd Bartels 648 Oak Avenue Maywood, NJ 07607

Mr. James Sankovich Field Environmental Analyst Ryder Truck Rental, Inc. 650 Commercial Avenue Carlstadt, NJ 07072

Mr. Maurice W. Weil AMF Voit 51 Commerce Street Springfield, NJ 07081 Mr. John Czapor Conti Environmental, Inc. 3001 South Clinton Avenue South Plainfield, NJ 07080

Mr. Thomas Moritz Environmental Federation North Jersey Office 14 South Park Sstreet Montclair, NJ 07042

Ms. Delores Phillips Environmental Federation Legislative Office 321 West State Street Trenton, NJ 07042

Mr. & Mrs. Peter T. Torell 475 Bergen Avenue Maywood, NJ 07607 Mr. K. M. Lu Maywood Borough Hall 459 Maywood Avenue Maywood, NJ 07607

Mr. Michael J. Nolan Chairman Maywood Borough Hall 69 Lenox Avenue Maywood, NJ 07607

Mr. John Tamburro 142 West Central Avenue Maywood, NJ 07607 Mr. Gregory Allen
D. T. Allen, Inc.
799 Franklin Avenue
Franklin Lakes, NJ 07417

Mr. Martin R. Infante 600 Knollwood Road Ridgewood, NJ 07450

Ms. Roni Kansagor Representative Office of Assembleyman Bob Smith New Brunswick District 44 Stelton Road, Room 250 Piscataway, NJ 08854 Mr. Dennis J. Kaser Loan Officer Monarch Savings Bank 20 Brookside Place Hillsdale, NJ 07642

Mr. P. Luciano 266 Addison Place Paramus, NJ 07652 Ms. Joanne Lyons 425 Paramus Road Paramus, NJ 07652

Mr. Larry Mascaro 43 Sussex Road Bergenfield, NJ 07621 Mr. Lenny Nix 83 Elm Avenue Hackensack, NJ 07601

Mr. Brian P. Nugent 441 Central Avenue Hackensack, NJ 07601 Mr. Donald Nunziato 95 Mtn His Avenue Lincoln Park, NJ 07035

Ms. Eileen Quagliano
Assistant Director
Ramapo College
Career Planning & Placement
505 Ramapo Valley Road
Mahwah, NJ 07430

Mr. Ed Saiff Ramapo College School of Applied Science 505 Ramapo Valley Road Mahwah, NJ 07430

Pastor John Shepard First Presbyterian Church of Hackensack 64 Passaic Street Hackensack, NJ 07601 Mr. Chris Tallon 452 Fifth Avenue River Edge, NJ 07661 Mr. & Mrs. Peter Leone 19 Redstone Lane Lodi, NJ 07644 Mr. Joseph Nehring Manager Appleton Electric Company 100 Hancock Street Lodi, NJ 07644

Ms. Seema Tahiliani 9 Hancock Street Lodi, NJ 07644

Mr. Brian Weeks 65 Livingstone Avenue Roseland, NJ 07068 Mr. John Alleva 102 West Central Avenue Maywood, NJ 07607

Ms. Ruth Bahto 178 East Central Avenue Maywood, NJ 07607

Ms. Elizabeth Baird 278 Eccleston Place Maywood, NJ 07607

Mr. Charles Bazalo 856 Berkley Street New Milford, NJ 07646

Ms. Essie Becton 8270 Frost Berkeley, MO 63134 Mr. S. Black Teledyne 50 Van Buren Westwood, NJ 07675

Mr. Erwin A. Brunner 95 Orchard Place Maywood,NJ 07607 Mr. L. Caccioppoli 454 Davison Avenue Maywood, NJ 07607

Mrs. Gilbert R. Carrell 332 Byron Place Maywood, NJ 07607 Mr. Clement Caso 682 Palmer Avenue Maywood, NJ 07601

Mr. Robert P. Cloughley 592 Edel Avenue -Maywood, NJ 07607

Mr. H. Connell 24 West Magnolia Maywood, NJ 07607

Mr. Jim Cook 824 Rose Court River Vale, NJ 07675

Mrs. Carol Cumier 735 Lincoln Avenue Maywood, NJ 07607 Ms. Jeanette DeCastro 129 Maywood Avenue Maywood, NJ 07607 Mr. Scott Dennerlein Teledyne Isotopes 50 Van Buren Avenue Westwood, NJ 07675

Mr. Tim Desmond 112 Lenox Avenue Maywood, NJ 07607 Mr. John E. Docimo 49 West Central Avenue Maywood, NJ 07607

Mr. Michael Dolitan 275 Eccleston Place Maywood, NJ 07607 Mr. Louis Felz 122 West Central Avenue Maywood, NJ 07607

Mr. Rocco Ferranti 113 Stone Street Maywood, NJ 07607 Mr. Guenter Furczyk 200 Maywood Avenue Maywood, NJ 07607

Mr. Thomas E. Gaffnay 888 Briarcliff Avenue Maywood, NJ 07607 Mrs. Louise Gross 78 Grove Avenue Maywood, NJ 07607

Mr. R. Gugliardi 475 Davison Street Maywood, NJ 07607 Ms. Claudia M. Gunstra 59 Orchard Place Maywood, NJ 07607

Mr. George Haag 34 Parkway Maywood, NJ 07607 Mr. Ron Hurley 462 Oak Avenue Maywood, NJ 07607 Mr. Charles Judd Envirocare 215 South State #1160 Salt Lake City, UT 84093 Mr. Greg Kasler Container Products P.O. Box 91068 Portland, OR 97291

Mr. Alex Krynicki 22 Howcroft Road Maywood, NJ 07607 Mrs. Rosemary Lavin 102 West Magnolia Maywood,NJ 07607

Mr. Dominick Lepore 123 Maywood Avenue Maywood, NJ 07607 Mr. Ronald Liss 647 Lincoln Avenue Maywood, NJ 07607

Ms. Linda Loibl 460 Oak Avenue Maywood, NJ 07607 Mr. P. A. Marchetto 122 East Pleasant Avenue Maywood, NJ 07607

Mr. Kelvin Mills Ryder Dist. Resources 151 Maywood Avenue Maywood, NJ 07607 Mr. D. Mitchell 461 Latham Street Maywood, NJ 07607

Mr. Michael G. Nelson 76 West Central Avenue Maywood, NJ 07607 Mrs. Helen O'Toole 110 West Central Maywood, NJ 07607

Ms. Tara Ohland 130 West Central Avenue Maywood, NJ 07607 Mr. Charles Parodi 48 West Grove Avenue Maywood, NJ 07607 Ms. Maria Pelissier 330 Jaeger Avenue Maywood, NJ 07607 Mr. Richard F. Peters 116 West Central Avenue Maywood, NJ 07607

Ms. Louise Ponce 584 Elm Street Maywood, NJ 07607 Mr. Al Rafati Director of Business Development ENVIROCARE 215 South State Street, Suite 1160 Salt Lake City, UT 84111

Mr. Thomas H. Richards 347 Golf Avenue Maywood, NJ 07601 Mr. John J. Riegler 57 Oldis Street Rochelle Park, NJ 07662

Mr. Chris Santana 96 Beech Street Maywood, NJ 07607

Mr. Peter C. Scanel 200 Brookdale Street Maywood, NJ 07607

Mr. William Sontag 739 Edel Avenue Maywood, NJ 07607 Mr. Timothy Spiess Kyder System Environmental Services, 4B 3000 NW 82nd Avenue Miami, FL 33166

Mr. Ferdinand G. Tufo 43 Beech Street Maywood, NJ 07607 Ms. Edith Vicarie 16 Lenox Avenue Maywood, NJ 07607

Ms. Viola Walker 541 Maywood Avenue Maywood,NJ 07607 Ms. Mary E. Ward Clerk Board of Freeholders 751 Wyoming Avenue Maywood, NJ 07607 Ms. Janet Whitaker
157 West Magnolia Avenue
Maywood, NJ 07607

Mr. Walter Woodworth 274 Ramapo Avenue Maywood,NJ 07607

Captain Rich Zavinsky
Rochelle Park Police
475 Bergen Avenue
Maywood, NJ 07607

Mr. William Betten 34 Parkway Rochelle Park, NJ 07662 Mr. J. Cabourg 27 Schlosser Drive Rochelle Park, NJ 07662

Ms. Anna Constantinou 46 Harvey Avenue Rochelle Park, NJ 07662 Mr. Jim Daubner 14 Grove Avenue Rochelle Park, NJ 07662

Mr. Jean-Michel Fatovic 117 Madison Avenue Rochelle Park, NJ 07662 Mr. Walter Johnson 54 Rochelle Avenue Rochelle Park, NJ 07662

Mr. & Mrs. W. E. Lukas 280 West Passaic Street Rochelle Park, NJ 07662 Mr. Robert A. Rosenkranz 12 Hoffman Avenue Rochelle Park, NJ 07662

Captain Zabrinsky 3 Cedar Drive Rochelle Park, NJ 07662 Mr. Anthony Taormina Director Lodi Public Library One Memorial Drive Lodi, NJ 07644

Ms. Florence Wolfson Librarian Maywood Public Library 459 Maywood Avenue Maywood, NJ 07607

Ms. Judith Sands Director Rochelle Park Library 405 Rochelle Avenue Rochelle Park, NJ 07662 Mr. Anthony Palazzo Staff Writer THE BERGEN RECORD 150 River Street Hackensack, NJ 07601

Ms. Pat Wen THE NEWARK STAR-LEDGER Bergen County Courthouse Hackensack, NJ 07601 Ms. Christina Rossi Paramus Post 75 North Maple Avenue Ridgewood, NJ 07450

Editor
THE BERGEN RECORD
150 River Road
Hackensack, NJ 07602

Mr. Santos Menendez WFUM 93 Hammel Place Maywood, NJ 07607

Mr. Tony Palazzo
Staff Writer
THE RECORD
150 River Street
Hackensack, NJ 07601

Ms. Vera Schock
Reporter
OUR TOWN NEWSPAPER
58 West Pleasant Avenue
Maywood, NJ 07607

Editor
THE NEW JERSEY HERALD AND NEWS
988 Main Avenue
Passaic, NJ 07055

News Director WKDM-AM Patterson Lane Carlstadt, NJ 07601 Mr. Chris Neidenberg THE SHOPPER NEWS 12-38 River Road Fair Lawn, NJ 07410

Ms. Katherine Panos OUR TOWN NEWSPAPER 58 West Pleasant Avenue Maywood, NJ 07607

Editor THE SUNDAY POST 30 Oak Street Ridgewood, NJ 07451

Editor THE SUBURBAN NEWS 50 Eisenhower Drive Paramus, NJ 07652

News Director WWDJ-AM Communicom Corporation of America 167 Main street Hackensack, NJ 07601 Ms. Theresa Garb 99 Garibaldi Avenue Lodi, NJ 07644

Mr. & Mrs. William Gulino 59 Trudy Drive Lodi, NJ 07644

Mr. Mark S. Hirsch 20 Long Valley Road Lodi, NJ 07644

Mr. M. Ingras 17 Redstone Lane Lodi, NJ 07644

> Mr. H. Lindner 3 Hancock Street Lodi, NJ 07644

Mr. & Mrs. R. Miller 123 Avenue F Lodi, NJ 07644

Mr. V. W. O'Reilly 5 Hancock Street Lodi, NJ 07644 Mr. Jerry Gordan Manager Airco Medical and Special Products 80 Hancock Street Lodi, NJ 07644

Mr. & Mrs. A. Hawxhurst 64 Trudy Avenue Lodi, NJ 0764f4

Mr. Stephan A. Horwat 60 Trudy Avenue Lodi, NJ 07644

Mr. & Mrs. R. Kelly 59 Avenue C Lodi, NJ 07644

Mr. Steven L. Maffei 18 Long Valley Road Lodi, NJ 07044

Mr. Richard H. Niven 106 Columbia Lane Lodi, NJ 07644

Mr. F. Paluscio 8 Hancock Street Lodi, NJ 07644 Mr. J. Amato 6 Branca Court Lodi, NJ 07644

Ms. Lena Balvin 79 Avenue B Lodi, NJ 07644

Ms. Kim Bara 4 Hancock Street Lodi, NJ 07644 Ms. Connie Bianchi 113 Avenue E Lodi, NJ 07644

Mr. H. R. Bohmert President National Community Bank 160/174 Essex Street Lodi, NJ 07644 Mr. & Mrs. G. Capizzi 58 Trudy Avenue Lodi, NJ 07644

Mr. S. Composto 61 Trudy Avenue Lodi, NJ 07644 Mr. M. Contillo 7 Branca Court Lodi, NJ 07644

Mr. Raymond Coss 90 Avenue C Lodi, NJ 07644 Ms. Madeline Crane
Dept. Director, Admin. Services
State of New Jersey
Office of Attorney General
Justice Complex, CN-081
Trenton, NJ 08625

Mr. Vincent DiVita 62 Trudy Avenue Lodi, NJ 07644 Mr. M. Elazab 16 Long Valley Road Lodi, NJ 07644

Mr. M. Faller 26 Long Valley Road Lodi, NJ 07644 Mr. R. Frontauria 4 Branca Court Lodi, NJ 07644 Mr. S. Perkins 10 Hancock Street Lodi, NJ 07644

Ms. Constance M. Pucci 112 Avenue E Lodi, NJ 07644

Mr. C. Raia 11 Redstone Lane Lodi, NJ 07644 Ms. Maureen Reiley 24 Long Valley Road Lodi, NJ 07644

Mr. Anthony J. Rom Plant Manager Bergen Cable Technologies, Inc. Gregg Street, P.O. Box 1399 Lodi, NJ 07644 Mr. V. Ruscica 6 Hancock Street Lodi, NJ 07644

Mr. Vincent Salanitri 108 Avenue E Lodi, NJ 07644 Mr. J. Sartore-Bodo 22 Long Valley Road Lodi, NJ 07644

Mr. A. Savar 11 Branca Court Lodi, NJ 07644 Mr. M. V. Schulze 80 Industrial Road Lodi, NJ 07644

Mr. Vito Stamato
72 Sidney Street
Lodi, NJ 07644

Mr. Fujiko Thierauf 14 Long Valley Road Lodi, NJ 07644

Mr. A. Tiago 2 Branca Court Lodi, NJ 07644 Mr. S. Philip Wagenti 7 Hancock Street Lodi, NJ 07644 Mr. & Mrs. E. Woolsey 121 Avenue F Lodi, NJ 07644 Mr. William S. Adler Myron Manufacturing 205 Maywood Avenue Maywood, NJ 07607 Mr. D. Babcock 459 Davison Avenue Maywood, NJ 07607

Mr. L. Caccioppoli 454 Davison Avenue Maywood, NJ 07607 Ms. Susan M. Cange U. S. Department of Energy P.O. Box 2001, EW-93 Federal Building Oak Ridge, TN 37830

Mrs. F. Cielo 464 Davison Avenue Maywood, NJ 07607 Mr. W. P. DeSaussure DeSaussure Equipment Company 23 West Howcroft Road Maywood, NJ 07607

Mr. F. DiChiora 460 Davison Avenue Maywood, NJ 07607 Mrs. Evelyn Dunphy 468 Davison Avenue Maywood, NJ 07607

Mr. Nathan Fenno Vice President-Law New York, Susquehanna, & Western Railroad 1 Railroad Avenue Cooperstown, NY 13326 Mr. Howard E. Heller Kin Properties, Inc. 200 Central Park Avenue Suite 210 Hartsdale, NJ 10530

Mr. George S. Howarth Joseph L. Muscarelle, Inc. Essex Street & Route 17 Maywood, NJ 07607 Mr. Joseph M. Hughes 467 Latham Street Maywood, NJ 07607

Mr. Thomas Kaynak New Jersey Dept. of Transportation Permits Section Junction of Routes 1 & 9, 21 & 22 Newark, NJ 07114 Mr. Ted Kielbasa Stepan Chemical Company 100 West Hunter Avenue Maywood, NJ 07607 Mrs. Mildred Kocher 136 West Central Avenue Maywood, NJ 07607

Mr. Joseph Muscarelle Joseph Muscarelle Associates Route 17 and Essex Street Maywood, NJ 07607

Mr. G. W. Ramsey Planning Manager Territorial Facilities Sears Tower, Department 766 Chicago, IL 60684

J. Schafer 459 Latham Street Maywood, NJ 07607

Mr. F. Quinn Stepan Stepan Chemical Company 22 Frontage Road Northfield, IL 60093

Mr. Robert S. Williams The Regency Group Hancock Realty 500 North Broadway Jericho, NY 11753 Mr. D. Mitchell 461 Latham Street Maywood, NJ 07607

Mr. John O'Brien General Manager Stepan Chemical Company 100 West Hunter Avenue Maywood, NJ 07607

Mr. Peter C. Scanel 200 Brookdale Street Maywood, NJ 07607

John A. Schepisi, Esq. Schepisi & McLaughlin, P.A. Attorneys at Law 611 Palisade Avenue Englewood Cliffs, NJ 07632

Mr. Thomas Tosko
Real Estate Manager
Sun Refining & Marketing Company
Ten Penn Center
1801 Market Street
Philadelphia, PA 19103

Mr. Sadi Calabrese 10 Grove Avenue Rochelle Park, NJ 07662 Mr. E. Eickhorst 34 Grove Avenue Rochelle Park, NJ 07662

Mr. F. Herkert 86 Park Way Rochelle Park, NJ 07662 Mr. J. Hrablock 42 Grove Avenue Rochelle Park, NJ 07662

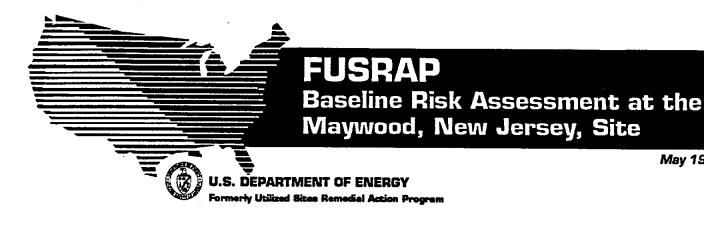
Mr. W. Kirchheimer 38 Grove Avenue Rochelle Park, NJ 07662 Mr. T. Kohlus 30 Grove Avenue Rochelle Park, NJ 07662

Mr. L. Lewis 26 Grove Avenue Rochelle Park, NJ 07662 Mr. H. Pfieffer 90 Park Way Rochelle Park, NJ 07662

Mr. R. Waleck 22 Grove Avenue Rochelle Park, NJ 07662 Paul Charp, Ph.D. ATSDR 1600 Clifton Road Altanta, GA 30333

Mr. David Fauver Project Manager U.S. Nuclear Regulatory Commission Nuclear Materials, Safety & Safeguards 11555 Rockville Pike Rockville, MD 20852 Tony Dvorak, Ph.D.
Argonne National Laboratory
Energy and Environmental Systems Division
9700 South Cass Avenue, Bldg. 362
Argonne, IL 60439

Paul Moskowitz, Ph.D.
Brookhaven National Laboratory
Bio-Medical and Engineering Assessment Group
Building 475
Upton, NY 11973



May 1993

This fact sheet has been prepared to address community outreach requirements set by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Environmental Policy Act (NEPA). Fact sheets are one part of an effort to provide public information on environmental restoration and waste management.

The U.S. Department of Energy (DOE) has completed a baseline risk assessment (BRA) for the Maywood site in Bergen County, New Jersey. The Maywood site, which is on the Environmental Protection Agency (EPA) National Priorities List (Superfund) for cleanup, is located in a commercial and residential area in northeastern New Jersey. The BRA is required as part of the Superfund site cleanup process. Its purpose is to evaluate the potential threat to human health and the environment if the site is not cleaned up. The results of the BRA provide a basis for determining the need for site cleanup.

Responsibility for cleanup of the Maywood site was assigned to DOE by Congress in 1984. Contamination at the site is a result of commercial thorium processing operations conducted by the former Maywood Chemical Works between 1916 and 1959. Over 80 properties in the vicinity of the former Maywood Chemical Works facility were contaminated with radioactive materials from the facility. Twentyfive of these properties have already been cleaned up by DOE, and the contaminated material generated from these activities is currently stored at the DOE-owned Maywood Interim Storage Site (MISS).

METHODS

The BRA identifies the means by which people and the environment may be exposed to contaminants that are present at the Maywood site. Mathematical models are used to predict the possible effects on human health and the environment from exposure to radionuclides and chemicals in both present and possible future uses at the site. Future use of a property may be different from its current use. An example would be commercial property becoming residential property sometime in the future.

Because of previous thorium processing activities at the site, it was expected that radioactive materials would be the primary contaminant present. However, both radioactive and chemical contaminants were evaluated. From data presented in the remedial investigation report, estimates of average and maximum exposures were calculated. (For more information on the remedial investigation at Maywood, see the fact sheet. "Remedial Investigation at the Maywood, New Jersey, Site.")



Mathematical models are used to predict risks

RESULTS

The remedial investigation identified three primary radionuclides; thorium-232, with lesser amounts of uranium-238 and radium-226. Chemicals identified above background (naturally occurring) concentrations included metals primarily associated with former processing activities, such as arsenic, copper, lead, and nickel. Organic compounds were also detected in former processing areas and included toluene, an organic solvent. (No organics were used in thorium processing. They may be the result of natural decay or the industrialized nature of the area.) These radioactive and chemical contaminants were found at various concentrations in the soil, groundwater, surface water, and sediments.

This information was then mathematically modeled to predict the potential health risks for people living, working, or visiting the areas where radionuclides and chemicals were found. In accordance with EPA guidance, the primary health risks investigated were cancer and other chemical-related illnesses.

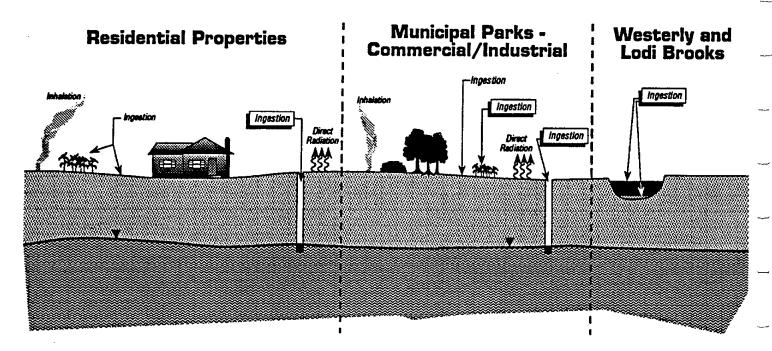
The modeled risk estimates were then compared to an EPA-established "target risk range" for cancer. This range estimates the chance that an individual would develop cancer over a 70-year lifetime as a result of being exposed to contamination. The range is 1 chance in 10,000 to 1 chance in 1,000,000 (10⁻⁴ to 10⁻⁶). To keep

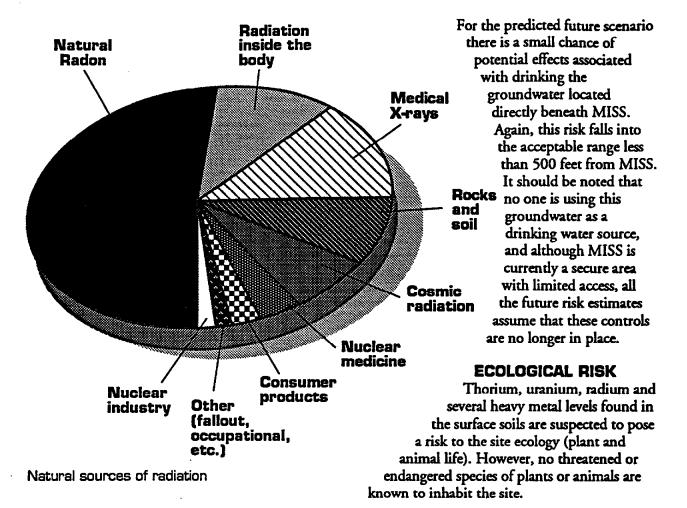
these numbers in perspective, according to EPA, 100 out of every 10,000 people in this area will develop cancer due to naturally occurring background radiation. EPA's upper limit of the risk range adds one more person in 10,000 to this group.

RADIOLOGICAL RISK

The BRA presents results for average exposure conditions under current and predicted future land use for the contaminated properties. These results are calculated using the average radionuclide concentrations. The results predicted that for current land uses, only employees located at certain areas on MISS would be considered at risk. These results assume that employees are located at areas of contamination seven hours each day, 250 days per year, for seven years. No one is currently at these locations for this duration. For estimated future land uses, radiological risk was outside the EPA range of acceptability for these same locations on MISS and a portion of two commercial properties near MISS.

EPA requires that the modeling also include what is called a reasonable maximum exposure (RME) scenario. These calculations assume that an individual would be exposed to the maximum possible concentration of contaminants for most of their day. For current land uses, the model predicted that exposure would fall outside the EPA range of acceptability for employees at certain areas





of MISS and two commercial/industrial properties near MISS; some of the residents along a road at the I-80 eastbound right-of-way; and visitors to a location on MISS where thorium processing occurred. The RME exposure for future land uses estimates all properties except a few residences would exceed the target risk range.

CHEMICAL HEALTH RISK

The risk of developing cancer over a 70-year lifetime from chemicals that have been shown to cause cancer was evaluated for both average exposure and for a reasonable maximum exposure. None of the estimated cancer risks exceeded the EPA risk range of acceptability for current land uses. The only risk predicted for future land uses was drinking the groundwater directly beneath MISS for both the average and reasonable maximum conditions. This risk is reduced as the water flows away from MISS and is within EPA's range of acceptability 500 feet from MISS. In addition, no effects would be expected for non-cancer chemical illnesses under current land uses.

UNCERTAINTIES

There are many uncertainties associated with the process of estimating risks. As an example, many assumptions are made concerning conditions that do not actually exist (such as drinking contaminated groundwater that no one is actually drinking). Most of the calculations are based on conservative assumptions that will tend to overestimate the degree of actual risk.

THE NEXT STEP

The information from the BRA will be used to assist in the development of cleanup alternatives in the feasibility study (FS). The BRA and RI reports are now available for public review in the Administrative Record file located at the DOE Public Information Center, 43 West Pleasant Avenue, and the Maywood Public Library, 459 Maywood Avenue. Public comments will be requested on these documents, along with the FS, in the summer of 1993.

For more information, please visit or call:

Department of Energy **Public Information Center** 43 West Pleasant Avenue Maywood, New Jersey 07607 (201) 843-7466 1-800-253-9759





Remedial Investigation at the Maywood, New Jersey, Site

May 1993

This fact sheet has been prepared to address community outreach requirements set by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Environmental Policy Act (NEPA). Fact sheets are one part of an effort to provide public information on environmental restoration and waste management.

The U.S. Department of Energy (DOE) has completed a remedial investigation (RI) for the Maywood site in Bergen County, New Jersey. The Maywood site, which is on the Environmental Protection Agency (EPA) National Priorities List (Superfund) for cleanup, is located in northeastern New Jersey. The purpose of the RI is to define the type and extent of contamination, under DOE's responsibility, that is present at the site.

Responsibility for cleanup of the Maywood site was assigned to DOE by Congress in 1984. Contamination at the site is a result of commercial thorium processing operations conducted by the former Maywood Chemical Works between 1916 and 1959. Over 80 properties in the vicinity of the former Maywood Chemical Works facility were contaminated with radioactive materials from past disposal practices. Twenty-five of these properties have already been cleaned up by DOE, and the contaminated material generated from these activities is currently stored at the DOE-owned Maywood Interim Storage Site (MISS).

The RI is the final study in a number of other efforts to identify both chemical and radiological contaminants at the Maywood site. The Stepan Company is also studying the site under orders from EPA. Responsibility for cleanup of the site is divided between DOE and Stepan.

HOW THE RI WAS CONDUCTED

The Maywood site includes 85 properties in Maywood, Rochelle Park, and Lodi. For study purposes, the site was divided into four study areas:

 the DOE-owned Maywood Interim Storage Site (MISS) was the location of past thorium processing activities. Low-level radioactive soil and building rubble from vicinity property cleanups have been placed for storage at MISS until a final cleanup alternative is determined: the Stepan Company, which now owns the former Maywood Chemical Works property; residential properties; and commercial and government-owned properties.

A sampling plan was developed that identified the methods for collecting the samples for each of these study areas and the analyses to be performed. (The field sampling plan, which describes the sampling methods used, is available for public review.) Samples were collected in accordance with standard procedures set by EPA and the New Jersey Department of Environmental Protection and Energy (NJDEPE). Samples were collected and analyzed of surface and subsurface soils, surface water, sediments, and groundwater.

Two types of surveys were performed to identify where soil samples should be collected and analyzed. The first type of survey used a gamma radiation detector, while the second used the same type of equipment with a lead-lined shield. The purpose of the shield is to ensure that the instrument detects gamma radiation directly beneath it and is not influenced by radiation from nearby sources.

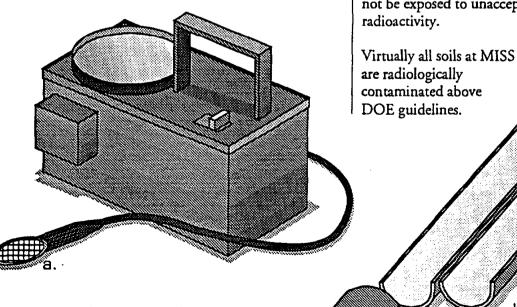
These surveys were performed to identify areas where radiation levels were two times higher than background. Both surface (top six inches) and subsurface soil samples were collected from these locations. Subsurface soils were collected using split-spoon sampling devices (see illustration). A split-spoon sampler is a steel tube that is driven

into the soil to collect samples. Surface water and sediment samples were collected from Lodi and Westerly Brooks. Groundwater samples were collected from monitoring wells.

RADIOLOGICAL SAMPLING RESULTS

The primary radioactive contaminant at the site is thorium-232. Uranium-238 and radium-226 are also found, but typically at lower concentrations. Results of radiological analyses are usually expressed in terms of the concentration of radioactivity in a given amount of air, water, or sediment. The concentration is expressed in terms of picocuries (pCi) of radioactivity per liter (of air or water) or gram (of soil or sediment). A pCi is one-trillionth of a curie.

As was expected, concentrations of radioactive material from samples taken from MISS and the burial pits at the Stepan property were above DOE cleanup guidelines. These guidelines – 5 pCi per gram for thorium and radium in surface soils and 15 pCi per gram in subsurface soils – are low enough to ensure protection of human health and the environment. After an area is cleaned up to these levels, a person could live in a house built upon previously contaminated property, grow food, raise and consume livestock on the property, and drink water from an onsite well, and still not be exposed to unacceptable levels of radioactivity.



Soil samples from areas identified by gamma radiation detectors (a) were taken by (b) a device called a split-spoon sampler.

Concentrations of thorium-232 detected in the storage pile averaged about 20 pCi per gram. Levels of associated uranium-238 and radium-226 measured 17 and 2.4 pCi per gram, respectively. These results are expected because the material in the pile came from previous cleanup activities.

Radioactive contamination on the Stepan property is present in both surface and subsurface soils. In the burial pits on the Stepan property, thorium concentrations were considerably higher than on other parts of the property. Maximum concentrations were approximately 1600 pCi per gram. However, more typical concentrations in the pits ranged between 1.3 and 50 pCi per gram. The contaminated areas are covered with either grass or asphalt, thereby reducing the levels of radiation exposure to the public. Several buildings on the Stepan property are radiologically contaminated. The contamination is fixed in place and therefore is not easily transferable.

Radiological contamination was found on residential properties mostly along the former channel of Lodi Brook, in areas where contaminated sediment was deposited outside the creek banks. Other residential properties were contaminated where material from former activities was used as fill or mulch. Surface soil concentrations of thorium-232 ranged from less than 0.5 to 111.6 pCi per gram. Subsurface soil

concentrations for thorium-232 ranged from less than 0.3 to 72.5 pCi per gram. Ranges for uranium-238 and radium-226 concentrations were significantly lower than thorium-232 in both surface and subsurface soils.

Radioactive contamination was found on the commercial and government-owned properties also along the Lodi Brook channel. Thorium-232 concentrations ranged from 0.3 to 48 pCi per gram. Again, concentrations for uranium-238 and radium-226 were lower than thorium-232.

As previously noted, at all of the areas studied in the RI, soil contamination is kept in place by grass, asphalt, concrete, or building foundations. The contamination therefore cannot leave these areas by means of surface transport.

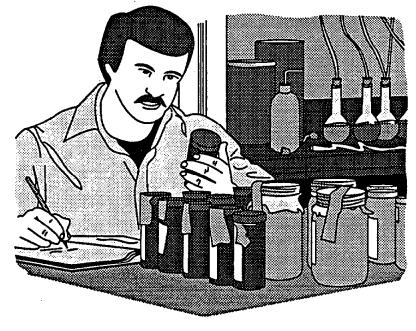
Surface water, sediment, and groundwater samples collected over a period of several years indicate that radioactive contamination is not leaving MISS.

CHEMICAL INVESTIGATIONS

Chemical contamination that is DOE's responsibility to address is defined in an agreement between DOE and EPA. This includes chemicals known to be associated with the thorium extraction process, chemicals that are mixed with radioactive contaminants, and all chemical

contaminants on or migrating from the DOE-owned MISS.

Based on DOE's responsibilities, chemicals identified as primary contaminants were metals and rare earth elements including, but not limited to: arsenic, cobalt, copper, lead, nickel, selenium, vanadium, cerium, lanthanum, and neodymium. A wide range of other chemical contaminants was also analyzed for each of the samples taken. Concentrations of chemicals are expressed as parts per million or parts per billion. (Parts per million can be thought of as 1 part orange juice to 1,000,000 parts water.) No hazardous wastes were found on any of the areas studied.



All samples underwent rigorous laboratory analysis to determine radiation and chemical concentrations.

Rare earths on the Stepan property ranged in concentrations from 46 to 6620 parts per million, most of which were in areas that were also radioactively contaminated. Metals detected in the radioactively contaminated areas ranged from 0.4 to 728 parts per million. These metals included lithium, which had the highest concentrations; antimony, barium, boron, cadmium, and thallium were also detected.

At MISS, the waste pile itself revealed the primary chemical contaminants as well as detectable traces. in the parts per billion range, of toluene and polyaromatic hydrocarbons. These are probably residues from waste retention ponds that were used during former processing activities. On the remainder of MISS, metal contaminants were present in ranges of 0.5 to 1060 parts per million. Besides the primary contaminants, other metals such as chromium and lithium were present in maximum concentrations of 1510 and 2290 parts per million, respectively. Primary rare earth contaminants were typically detected in radioactively contaminated areas, ranging from 40 to 3140 parts per million. Organics on the site were detected infrequently.

Since no organics were used in the thorium processing, they were not considered primary contaminants. However, trace levels of organics were identified, both in radioactively and non-radioactively contaminated areas. These organics were likely the result of natural vegetative decay and of the industrialized nature of the area.

On both the residential and commercial/ government properties, primary contaminants were detected in the 0.3 to 1150 parts per million range in radioactively contaminated areas.

Chemical sampling and analysis of surface water in the study areas revealed concentrations below drinking water standards. Lithium has been detected downstream from MISS; however, there is no regulatory guideline for this metal.

Analysis of groundwater samples detected low concentrations of metals and some organics.

Additional sampling of groundwater is planned.

THE NEXT STEP

Since 1986, DOE has routinely monitored surface water, sediment, groundwater, and air at MISS. Results of the monitoring program are reported annually in a Site Environmental Report that is available to the public.

Information compiled during the RI is being used to develop a baseline risk assessment (BRA) in order to evaluate the risks to human health and the environment if no cleanup action is taken. This information will also be used in another study to develop and evaluate alternatives for addressing the contamination at the site. That report, along with the RI and BRA, is scheduled for completion the summer of 1993. Once available, public comments will be requested on all three documents.

For more information, please visit or call:

Department of Energy Public Information Center

43 West Pleasant Avenue Maywood, New Jersey 07607 (201) 843-7466 1-800-253-9759

