

NATIONAL AIR TOXICS INFORMATION CLEARINGHOUSE



Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

STAPPA / ALAPCO

State and Territorial Air Pollution Program Administrators
Association of Local Air Pollution Control Officials

Ongoing Research and Regulatory Development Projects

June 1987

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NATIONAL AIR TOXICS INFORMATION CLEARINGHOUSE:
ONGOING RESEARCH AND REGULATORY DEVELOPMENT PROJECTS

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PREFACE

In response to State and local agency requests for air toxics information, EPA has designed and is implementing the National Air Toxics Information Clearinghouse. This information dissemination center has been designed and is being implemented in close coordination with the State and Territorial Air Pollution Program Administrators (STAPPA) and the Association of Local Air Pollution Control Officials (ALAPCO).

The purpose of this document, published by the National Air Toxics Information Clearinghouse, is to inform State and local policy makers of current research and regulatory development projects underway at EPA and the National Institute for Occupational Safety and Health (NIOSH), and to help them identify sources of specific air toxics information. Every effort has been made to ensure accuracy as of April 1987, the date that compilation of information was completed. However, future changes in agency priorities and funding levels may change the scope and estimated project completion dates.

This document is an update of the third National Air Toxics Information Clearinghouse ongoing research document, which was published in June 1986. The Clearinghouse currently plans to update this document on a regular basis. Other documents published by the Clearinghouse include:

- National Air Toxics Information Clearinghouse: Rationale for Air Toxics Control in Seven State and Local Agencies, EPA-450/5-86-005, PB86-181179/AS, August 1985;
- National Air Toxics Information Clearinghouse: NATICH Data Base Users Guide for Data Viewing, EPA-450/5-85-008, PB86-123601/AS, September 1985;
- National Air Toxics Information Clearinghouse Report on State and Local Air Toxics Activities, Two Volumes, EPA-450/5-86-011, A, B, PB86-200466/REB, July 1986;
- National Air Toxics Information Clearinghouse: How The Clearinghouse Can Help to Answer Your Air Toxics Questions, EPA-450/5-86-009, July 1986;

- National Air Toxics Information Clearinghouse: Methods for Pollutant Selection and Prioritization, EPA-450/5-86-010, PB87-124079/REB, July 1986;
- National Air Toxics Information Clearinghouse: Qualitative and Quantitative Cancer Risk Assessment, EPA-450/5-87-003, June 1987;
- National Air Toxics Information Clearinghouse: Bibliography of Selected Reports and Federal Register Notices Related to Air Toxics, Volumes 1 and 2, EPA-450/5-87-005, July 1987; and
- National Air Toxics Information Clearinghouse Newsletter, A Periodical, 16 issues to date, December 1983 - June 1987.

ABSTRACT

The National Air Toxics Information Clearinghouse has been established by the EPA's Office of Air Quality Planning and Standards for the purpose of facilitating information transfer among Federal, State, and local air quality management agencies. This document has been published as part of that effort. The purpose is to inform State and local policy makers and other Clearinghouse users of EPA and NIOSH research and EPA regulatory development projects concerning noncriteria air pollutants.

The document is divided into two parts and an appendix. The first part lists 235 air toxics projects currently in progress at EPA and NIOSH. A brief description of each project and a contact name, office, and telephone number are given. The second part of the document contains the index that allows readers to locate projects of interest. Projects are indexed by agency, project type, chemical name, CAS number, and air pollution source type. The appendix lists regulatory development projects on toxic chemicals underway at the EPA's Office of Drinking Water (ODW). While most of these projects are not directly related to air problems, health information on toxic chemicals from ODW projects may be of interest to Clearinghouse users.

This work complements information contained in the Clearinghouse documents entitled "National Air Toxics Information Clearinghouse: Bibliography of Selected Reports and Federal Register Notices Related to Air Toxics, Volumes 1 and 2," July 1987 (EPA-450/5-87-005).

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INTRODUCTION

This list of ongoing research and regulatory development activities has been compiled by the National Air Toxics Information Clearinghouse as one of several tools designed to facilitate information exchange on air toxics. A total of 235 ongoing projects concerning noncriteria pollutants are listed. These projects have been funded by the U. S. Environmental Protection Agency (EPA) or the National Institute for Occupational Safety and Health (NIOSH). The EPA or NIOSH office and a contact name and telephone number are provided for each project. To facilitate use of this document, the projects are indexed by agency, project type, chemical name, Chemical Abstracts Services (CAS) registry number, air pollution source type, and Standard Industrial Classification (SIC) code.

This document is designed to help Clearinghouse users identify sources of information for specific air toxics questions or problems. It is an updated version of the June 1986 Clearinghouse "Ongoing Research and Regulatory Development Projects" document. The list of projects contained in this document focuses on studies which have not yet resulted in publicly available reports. The list indicates estimated completion dates as well as a contact person who can provide study details. In future updates of this document, new projects will be added, and the dates and names previously provided will be updated as required. Projects which have been completed since the last edition have been removed. Some of these projects resulted in published reports which are listed in the July 1987 Clearinghouse publication "Bibliography of Selected Reports and Federal Register Notices Related to Air Toxics."

DOCUMENT SCOPE

Sixteen types of projects which are considered to be of greatest interest to agencies concerned with the regulation of noncriteria air pollutants are included in this compilation. Both basic scientific research

and studies conducted to assess the need for regulations and/or to support regulations development have been included. Federal regulations may or may not be developed for sources and/or pollutants covered by these projects. The 16 categories of projects are briefly defined below.

1. Ambient Monitoring - Projects funded by EPA laboratories for development of monitoring methodologies for hazardous air pollutants or for conducting monitoring studies.
2. CHIPS - Chemical Hazard Information Profile - In these studies, EPA's Office of Toxic Substances (OTS) compiles preliminary information about sources, environmental distribution, exposure and health effects of specific chemicals.
3. Control Technology - Projects funded primarily by EPA laboratories and addressing control of air toxics from specific sources or mitigation of effects from toxic pollutants in a geographic area (i.e., effects of urban soup).
4. Emission Factor Documents - Primarily funded by the Monitoring and Data Analysis Division, Office of Air Quality Planning and Standards (OAQPS), these projects examine the sources and emissions of specific pollutants.
5. Epidemiology Studies - NIOSH-funded epidemiology studies on noncriteria air pollutants.
6. Exposure Assessments - EPA-funded projects to estimate the population exposed to ambient concentrations of specific chemicals.
7. Health Assessments - Projects funded by EPA's Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office to compile information on health effects of specific chemicals.
8. Indoor Air - Projects conducted primarily by EPA laboratories and relating to toxic indoor air pollutants, including monitoring and health and exposure assessments of indoor air pollutants.

9. NESHAP - OAQPS projects to support the development of national emission standards for hazardous air pollutants (NESHAP) under Section 112 of the Clean Air Act. These projects may include collecting or generating the following types of information: an analysis of the affected industry or air pollution source including emissions data and applicable control technology; an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts; and health information including exposure and risk assessments.
10. NSPS - OAQPS projects to support the development of new source performance standards (NSPS) for sources of certain hazardous air pollutants under Section 111(d) of the Clean Air Act. These projects may involve gathering or generating the following types of information: an analysis of the affected industry or air pollution source including emissions data and applicable control technology and an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts.
11. Pre-Regulatory Assessments - Projects funded by the Pollutant Assessment Branch of OAQPS which include reviewing the health effects, sources, emissions to the ambient air, and potential for public exposure to specific pollutants in order to decide whether these pollutants should be regulated under the Clean Air Act.
12. Risk Assessments - Projects funded by EPA's Office of Health and Environmental Assessment and EPA research laboratories to estimate human risks from hazardous air pollutants.
13. Source Assessments - EPA projects to identify and quantify emissions from specific source categories and to evaluate applicable control technologies.
14. Source Sampling - Projects funded by EPA laboratories for development of source sampling methodologies or for sampling specific sources of hazardous air pollutants.

15. Toxicity Testing - Animal toxicity testing projects funded by EPA research laboratories and NIOSH.

The following EPA offices were contacted for lists of projects within these 12 categories:

- Office of Air Quality Planning and Standards,
- Office of Health and Environmental Assessment,
- Office of Pesticides and Toxic Substances,
- Office of Solid Waste and Emergency Response,
- Office of Research and Development, and
- Regional Offices for all 10 Regions.

The National Institute for Occupational Safety and Health (NIOSH) under the Department of Health and Human Services was also contacted. In selecting projects from these lists, emphasis was placed on projects dealing with noncriteria air pollutants which belong to the categories listed above. The Office of Drinking Water (ODW) projects have been listed in the Appendix. While not specifically air related, health information on toxic pollutants resulting from ODW projects may be helpful to Clearinghouse users.

USING THIS DOCUMENT

This document has been divided into two parts and an appendix. Part 1 contains individual entries for 235 ongoing research and regulatory development projects. Project entries are numbered sequentially throughout Part 1, beginning with the prefix CL-BIB. Breaks in numerical sequence indicate the removal of previous entries after completion of the specific project. Each entry generally contains the following elements:

- Project Title,
- Status of Project,
- Contact Office, Name, and Telephone Number,

- Chemical Abstract Services (CAS) Registry Number,
- Chemical Name,
- Air Pollution Source, and
- Project Type.

CAS number, chemical name, and source may not be applicable to all entries. For example, projects which deal with groups of chemicals such as "organic compounds" or "heavy metals" rather than specific pollutants cannot be assigned CAS numbers. Several special Clearinghouse acronyms prefaced with "CL- " have been assigned to groups of common pollutant types where no CAS number was applicable. The list of Clearinghouse chemical acronyms is shown in Table 1. In a few cases, the term "various" has been used where pollutants that are emitted are so numerous that even Clearinghouse numbers could not be assigned. In some projects dealing with specific source categories, lists of chemicals emitted are not yet available, so "various" has been used under Chemical Name. Other chemical-specific projects may not deal with specific air pollution sources. In these cases, the Air Pollution Source element of the entry has been omitted. Wherever possible, an effort has been made to list the specific chemical name(s), CAS registry number(s), and/or source type(s) for each project. Table 2 gives examples of typical entries.

If a project clearly falls into 1 of the 16 categories listed above, only that one project type is listed in the entry. While there is often overlap between the kinds of information included in these categories, the project type identified reflects the primary emphasis of the project. Where it was difficult to select the single most appropriate project type, more than one is listed.

The Status of Project element contains the date the project is expected to be completed or published. The month and year is given if available, otherwise the fiscal year of expected completion is provided. Since most NIOSH projects are long term projects, journal articles on various phases of a project may be published before the overall project completion date shown in the entry. In the case of emission standards projects (NESHAPs and NSPS), the entry indicates whether the standard is currently in the proposal or promulgation stage.

TABLE 1. CLEARINGHOUSE CHEMICAL IDENTIFIERS

Clearinghouse CAS #	Pollutant
CL-ABRAS	Abrasives
CL-ACID	Acidic compounds
CL-ADIP	Adipates
CL-ALDEHYD	Aldehydes
CL-AMINE	Amines
CL-BROM	Bromine compounds
CL-BTX	Benzene, toluene, xylene
CL-CARBON	Total carbon
CL-CARCIN	Carcinogens
CL-CFC	Chlorofluorocarbons
CL-CHC	Chlorinated hydrocarbons
CL-CHLOR	Chlorine compounds
CL-COE	Coke oven emissions
CL-CREOSOL	Creosols
CL-CUTFLU	Cutting fluids
CL-DGAEA	Diethylene glycol alkyl ethers and acetates
CL-DIESEL	Diesel fuel emissions
CL-DIISOCY	Disocyanates
CL-DIOXIN	Dioxins
CL-ETS	Environmental tobacco smoke
CL-EXPLO	Explosives
CL-FUELOIL	Waste derived fuel oil emissions
CL-FURAN	Furans
CL-HALOME	Halomethanes
CL-HAZWAST	Hazardous wastes
CL-HCARB	Hydrocarbons
CL-IAP	Indoor air pollutants
CL-INORGAN	Inorganic compounds
CL-METAL	Metallic compounds
CL-MINDUST	Mineral dusts
CL-MINFIB	Mineral fibers
CL-MS	Mineral spirits
CL-NITRATE	Nitrates
CL-NITRITE	Nitrites
CL-NITROSO	Nitroso compounds
CL-NMHC	Non-methane hydrocarbons
CL-OH	Hydroxide
CL-ORGANIC	Organic compounds
CL-PAH	Polycyclic aromatic hydrocarbons
CL-PCO	Photochemical oxidants
CL-PEST	Pesticides
CL-PHENOL	Phenols
CL-PHOSPHA	Phosphates

TABLE 1. CLEARINGHOUSE CHEMICAL IDENTIFIERS (Continued)

Clearinghouse CAS #	Pollutant
CL-PHTH	Phthalates
CL-PLAS	Plasticizers
CL-PM	Particulate matter
CL-POM	Polycyclic organic matter
CL-RAD	Radiation
CL-RESIN	Resins
CL-SALTS	Salts
CL-SEWSLUD	Sewage sludge
CL-SOLVENT	Solvents
CL-SULFATE	Sulfates
CL-SULFIDE	Sulfides
CL-SULFITE	Sulfites
CL-SVOC	Semivolatile organic compounds
CL-TIN	Organic tin compounds
CL-TRS	Total reduced sulfur
CL-VEG	Vegetable oil mists
CL-VOC	Volatile organic compounds
CL-WELD	Welding fumes
CL-WOOD	Wood smoke

TABLE 2. SAMPLE ENTRIES

CL-BIB-0040

TITLE: Decision on Regulation of Formaldehyde Under the Clean Air Act
STATUS: In Progress 1987
CONTACT: OAQPS/SASD/PAB, N. Pate, (919) 541-5347
CAS NO: 50-00-00
CHEMICAL: Formaldehyde
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0193

TITLE: Occupational Lung Disease Associated with Exposure to Diesel Emissions
STATUS: Started 10/81; Complete 9/87
CONTACT: NIOSH/DRDS/ENIB, M. McCawley, (304) 291-4304
CAS NO: CL-DIESEL
CHEMICAL: Diesel Exhaust
PROJECT TYPE: Epidemiology

The last element in each project entry lists the office doing the work and the name and telephone number of the Project Officer or other knowledgeable contact. Abbreviations used for the offices and the telephone number for each office are included in Table 3.

Part 2 of the document consists of the index. The index is organized alphabetically and each project is indexed by project type, CAS number, chemical name, source type, SIC code, and the agency conducting the work. These indices allow users to locate projects pertaining to a specific chemical, source, or type of information. For example, if information is desired on a specific chemical, it can be obtained by looking up the chemical name in the index or by looking up the CAS Number for that chemical. Numerical index terms are located after the alphabetic terms. Under the chemical name are a list of titles and project numbers (e.g., CL-BIB-0193). Using this project number, one can look up the projects of interest in Part 1 of this document. Similarly this process can be done for various source types. For example, if information on projects related to steel mining, or the chemical industry was desired, a listing could be found alphabetically in the index under each of these categories. If an entry contains more than one project type, it is listed in the index under each applicable project type. Only those chemical names, CAS numbers, and sources used in the 235 project descriptions are found in the index. A table of contents to the index is found at the beginning of Part 2. This lists all terms found in the index and the index page number where the term and associated projects are listed.

Regulatory development projects underway at the EPA Office of Drinking Water (ODW) are summarized in the Appendix. While these projects are not specifically air related, Clearinghouse users may find toxic chemical information generated by ODW useful. For example, background documents for setting Maximum Contaminant Levels under the Safe Drinking Water Act contain health information on toxic chemicals; and many chemicals being studied by ODW are also potential air pollutants. The Appendix contains a brief description of ODW regulatory development activities and lists of chemicals currently under study.

TABLE 3. KEY TO ABBREVIATIONS USED IN THIS DOCUMENT

Abbreviation			Name	Telephone
Office	Division	Branch		
1. Environmental Protection Agency (EPA) Offices				
OAQPS/		Office of Air Quality Planning and Standards, Research Triangle Park, NC		
ESED/		Emission Standards and Engineering Division	(919) 541-5571	
	SDB	Standards Development Branch	(919) 541-5578	
	CPB	Chemicals and Petroleum Branch	(919) 541-5671	
	ISB	Industrial Studies Branch	(919) 541-5671	
MDAD/		Monitoring and Data Analysis Division	(919) 541-5558	
	AMTB	Air Management Technology Branch	(919) 541-5586	
RPO		Regional Programs Office	(919) 541-5555	
SASD/		Strategies and Air Standards Division	(919) 541-5504	
	PAB	Pollutant Assessment Branch	(919) 541-5645	
OERR/		Office of Emergency and Remedial Response, Washington, DC	(202) 382-2180	
	HSC	Hazardous Site Control	(202) 382-4485	
OHEA/		Office of Health and Environmental Assessment, Washington, DC	(202) 382-7317	
	CAG	Carcinogen Assessment Group	(202) 382-5952	
	ECAO-RTP	Environmental Criteria and Assessment Office, Research Triangle Park, NC	(919) 541-4173	

TABLE 3. KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

<u>Office</u>	<u>Division</u>	<u>Branch</u>	<u>Name</u>	<u>Telephone</u>
	ECAO-Ci	Environmental Criteria and Assessment Office, Cincinnati, OH	(513) 684-7531	
	EAG	Exposure Assessment Group	(202) 475-8922	
	REAG	Reproductive Effects Assessment Group	(202) 382-7336	
OTS/		Office of Toxic Substances, Washington, DC		
A/		Assessment Division	(202) 382-3790	
	CSB	Chemical Screening Branch	(202) 382-3507	
	RAB	Risk Analysis Branch	(202) 382-3436	
ORP/		Office of Radiation Programs, Washington, DC	(202) 475-9626	
CSD/		Criteria and Standards Division	(202) 475-9600	
	ESB	Environmental Standards Branch	(202) 475-9610	
ORD/		Office of Research and Development, Washington, DC		
OHR		Office of Health Research	(202) 382-5900	
EMSL-RTP		Environmental Monitoring and Support Laboratory, Research Triangle Park, NC	(919) 541-2106	
ASRL-RTP		Atmospheric Sciences Research Laboratory, Research Triangle Park, NC	(919) 541-2191	
HERL-RTP		Health Effects Research Laboratory, Research Triangle Park, NC	(919) 541-2281	

TABLE 3. KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

Abbreviation				
Office	Division	Branch	Name	Telephone
	AEERL-RTP		Air and Energy Engineering Research Laboratory, Research Triangle Park, NC	(919) 541-2821
	HWERL-Ci		Hazardous Waste Engineering Research Laboratory, Cincinnati, OH	(513) 569-7519
	HWERL-Edi		Hazardous Waste Engineering Research Laboratory, Edison, NJ	(201) 321-6635
	Kerr Lab		EPA/Kerr Laboratory, Ada, OK	(405) 332-8800
OPP/ RD/	Special Review		Office of Pesticide Programs, Registration Division	(202) 557-7760
Reg/			Regional Offices	
	Reg. I		Region I, Air Management Division, Boston, MA	(617) 565-3232
	Reg. II		Region II, Air and Waste Management Division, New York, NY	(212) 264-2517
	Reg. III		Region III, Air Management Division, Philadelphia, PA	(215) 597-9800
	Reg. IV		Region IV, Air Management Division, Atlanta, GA	(404) 347-2864
	Reg. V		Region V, Air Management Division, Chicago, IL	(312) 353-6009
	Reg. VI		Region VI, Air and Waste Management Division, Dallas, TX	(214) 655-7208
	Reg. VII		Region VII, Air and Toxics Division, Kansas City, KS	(913) 236-2893
	Reg. VIII		Region VIII, Air and Toxics Division, Denver, CO	(303) 293-1761

TABLE 3. KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

<u>Office</u>	<u>Abbreviation</u>	<u>Name</u>	<u>Telephone</u>
<u>Office</u>	<u>Division</u>	<u>Branch</u>	
	Reg. IX	Region IX, Air Management Division, San Francisco, CA	(415) 974-7109
	Reg. X	Region X, Air and Toxics Division, Seattle, WA	(206) 442-1757
2. National Institute for Occupational Safety and Health (NIOSH) Offices			
DBBS/		Division of Biomedical and Behavioral Sciences, Cincinnati, OH	(513) 533-8465
	ABPB	Applied Biology and Physics	(513) 533-8383
	APEB	Applied Physiology and Ergonomics Branch	(513) 533-8383
	ETB	Experimental Toxicology Branch	(513) 533-8392
	TSB	Technical Support Branch	(513) 533-8433
DRDS/		Division of Respiratory Disease Studies, Morgantown, WV	(304) 291-4474
	LIB	Laboratory Investigations Branch	(304) 291-4281
	CIB	Clinical Investigations Branch	(304) 291-4223
	ENIB	Environmental Investigations Branch	(304) 291-4304
	EPIB	Epidemiology Investigations Branch	(304) 291-4476
DSHEFS/		Division of Surveillance, Hazard Evaluations, and Field Studies, Cincinnati, OH	(513) 841-8235
	IWSB	Industry Wide Studies Branch	(513) 841-4203
	SB	Surveillance Branch	(513) 841-4303

Information in this report is also available through the National Air Toxics Information Clearinghouse computerized data base known as NATICH. By accessing the data base on-line, the user may identify ongoing project citations by a combination of factors such as pollutant name or CAS number, SIC code, project type, and/or sponsoring agency (EPA or NIOSH). For more information on accessing NATICH, contact the Clearinghouse staff at (919) 541-5346 or (FTS) 629-5346.

PART 1 - PROJECT SUMMARIES

<u>CL-BIB-0010</u>	TITLE: Cadmium NESMAP STATUS: Proposal FY 88 CONTACT: OAQPS/ESED/ISB, J. Crowder CAS NO: 7440-43-9 CHEMICAL: CADMIUM PROJECT TYPE: NESMAP	TITLE: Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB) STATUS: Publish FY 87 CONTACT: OAQPS/HQD/AMTB, T. Lahre CAS NO: 1336-36-3; CL-PCB CHEMICAL: POLYCHLORINATED BIPHENYLS (PCB) PROJECT TYPE: Emission Factor; Source Assessment
<u>CL-BIB-0012</u>	TITLE: Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESMAP STATUS: Proposal FY 87 CONTACT: OAQPS/ESED/SDB, R. Ajax CAS NO: CL-COE CHEMICAL: COKE OVEN EMISSIONS SOURCE: Coke Ovens, Wet-Coal Charged PROJECT TYPE: NESMAP	TITLE: EPA-State Pilot Project For the Control of Acrylonitrile Emissions STATUS: In Progress FY 87 CONTACT: OAQPS/RPO, F. Renner CAS NO: 107-13-1 CHEMICAL: ACRYLONITRILE PROJECT TYPE: Source Assessment; Risk Assessment
<u>CL-BIB-0014</u>	TITLE: Organic Solvent Cleaning NESMAP STATUS: Proposed CONTACT: OAQPS/ESED/SDB, D. Beck CAS NO: CL-VOC; 127-18-4; 79-01-6; 71-55-6; 75-09-2; 76-13-1 CHEMICAL: VOC; PERCHLOROETHYLENE; TRICHLOROETHANE; METHYLENE CHLORIDE; 1,1,1-TRICHLOROETHANE; METHYL CHLORIDE; TRICHLOROTRIFLUOROMETHANE SOURCE: Degreasng Operations; Organic Solvent Cleaners PROJECT TYPE: NESMAP	TITLE: Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments STATUS: In Progress FY 87 CONTACT: OAQPS/SASD/PAB, D. Cleverly CAS NO: 71-43-2 CHEMICAL: BENZENE; GASOLINE VAPORS SOURCE: Gasoline Marketing PROJECT TYPE: Exposure Assessment
<u>CL-BIB-0018</u>	TITLE: Asbestos NESMAP Revision STATUS: Proposal FY 87 CONTACT: OAQPS/ESED/SDB, J. Meyer CAS NO: 1332-21-4 CHEMICAL: ASBESTOS SOURCE: Construction Industry; Demolition PROJECT TYPE: NESMAP	TITLE: Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion STATUS: In Progress FY 87 CONTACT: OAQPS/SASD/PAB, W. Peters CAS NO: 7440-38-2; 7440-41-7; 7440-43-9; 7440-47-3; 7440-02-0; CHEMICAL: CL-METAL SOURCE: ARSENIC; BERYLLIUM; CADMIUM; CHROMIUM; NICKEL; METALLIC COMPOUNDS PROJECT TYPE: Combustion EXPOSURE ASSESSMENT
<u>CL-BIB-0020</u>	TITLE: Chromium NESMAP STATUS: Proposal FY 87 CONTACT: OAQPS/ESED/SDB, J. Crowder CAS NO: 7440-47-3 CHEMICAL: CHROMIUM PROJECT TYPE: NESMAP	TITLE: Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB, M. Dusetzina CAS NO: CL-HAZWAST CHEMICAL: HAZARDOUS WASTES SOURCE: Hazardous Waste Facilities PROJECT TYPE: Exposure Assessment; Risk Assessment
<u>CL-BIB-0023</u>		
<u>CL-BIB-0027</u>		
<u>CL-BIB-0028</u>		
<u>CL-BIB-0029</u>		
<u>CL-BIB-0030</u>		

<u>CL-BIB-0034</u>	TITLE: Decision on Regulation of Acetaldehyde Under The Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, S. Voorhees	CAS NO: 75-07-0	CHEMICAL: ACETALDEHYDE	PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0041</u>	TITLE: Decision on Regulation of Gasoline Vapors Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, D. Cleverly	CAS NO: VARIOUS	CHEMICAL: GASOLINE VAPORS	PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0035</u>	TITLE: Decision on Regulation of Acrolein Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, B. Riddle	CAS NO: 107-02-8	CHEMICAL: ACROLEIN	PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0042</u>	TITLE: Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, S. Voorhees	CAS NO: 7783-06-4	CHEMICAL: HYDROGEN SULFIDE	PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0036</u>	TITLE: Decision on Regulation of Ammonia Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, M. Dusetzina	CAS NO: 7664-41-7	CHEMICAL: AMMONIA	PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0043</u>	TITLE: Decision on Regulation of Mineral Fibers Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, B. Riddle	CAS NO: VARIOUS	CHEMICAL: MINERAL FIBERS	PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0037</u>	TITLE: Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, T. Mohin	CAS NO: 7782-50-5; 7647-01-0	CHEMICAL: CHLORINE; HYDROCHLORIC ACID	PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0044</u>	TITLE: Decision on Regulation of Naphthalene Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, F. Hauchman	CAS NO: 91-20-3	CHEMICAL: NAPHTHALENE	PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0040</u>	TITLE: Decision on Regulation of Formaldehyde Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, N. Pate	CAS NO: 50-00-0	CHEMICAL: FORMALDEHYDE	PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0046</u>	TITLE: Decision on Regulation of Phosgene Under the Clean Air Act	STATUS: In Progress 1987	CONTACT: OAQPS/SASD/PAB, J. Vandenberg	CAS NO: 75-44-5	CHEMICAL: PHOSGENE	PROJECT TYPE: Pre-Regulatory Assessment

<u>CL-BIB-0048</u>	<u>TITLE:</u> Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act <u>STATUS:</u> In Progress 1987 <u>CONTACT:</u> OAQPS/SASD/PAB, N. Pate <u>CAS NO:</u> 75-56-9 <u>CHEMICAL:</u> PROPYLENE OXIDE; PROPYLENE <u>PROJECT TYPE:</u> Pre-Regulatory Assessment	<u>CL-BIB-0053</u> <u>TITLE:</u> Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act <u>STATUS:</u> In Progress 1987 <u>CONTACT:</u> OAQPS/SASD/PAB, J. Vandenberg <u>CAS NO:</u> 1314-13-2; 7440-66-6 <u>CHEMICAL:</u> ZINC; ZINC OXIDE <u>PROJECT TYPE:</u> Pre-Regulatory Assessment
<u>CL-BIB-0049</u>	<u>TITLE:</u> Decision on Regulation of Styrene Under the Clean Air Act <u>STATUS:</u> In Progress 1987 <u>CONTACT:</u> OAQPS/SASD/PAB, I. Cote <u>CAS NO:</u> 100-42-5 <u>CHEMICAL:</u> STYRENE <u>PROJECT TYPE:</u> Pre-Regulatory Assessment	<u>CL-BIB-0054</u> <u>TITLE:</u> List of Superfund Hazardous Waste Sites with Air Contamination Problems <u>STATUS:</u> In Progress FY 87 <u>CONTACT:</u> OERR/HSC, S. Caldwell <u>CAS NO:</u> CL-HAZWAST <u>CHEMICAL:</u> HAZARDOUS WASTES <u>SOURCE:</u> Hazardous Waste Facilities <u>PROJECT TYPE:</u> Source Assessment
<u>CL-BIB-0050</u>	<u>TITLE:</u> Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act <u>STATUS:</u> In Progress 1987 <u>CONTACT:</u> OAQPS/SASD/PAB, B. Hassett <u>CAS NO:</u> 584-84-9 <u>CHEMICAL:</u> TOLUENE DIISOCYANATE <u>PROJECT TYPE:</u> Pre-Regulatory Assessment	<u>CL-BIB-0055</u> <u>TITLE:</u> Potential for Air Releases From CERCLA Sites <u>STATUS:</u> Started 7/85; Complete 6/87 <u>CONTACT:</u> OERR/HSC, S. Caldwell <u>CAS NO:</u> CL-HAZWAST <u>CHEMICAL:</u> HAZARDOUS WASTES <u>SOURCE:</u> Hazardous Waste Facilities, Spills, Etc. <u>PROJECT TYPE:</u> Source Assessment
<u>CL-BIB-0051</u>	<u>TITLE:</u> Decision on Regulation of Methyl Isocyanate Under the Clean Air Act <u>STATUS:</u> In Progress 1987 <u>CONTACT:</u> OAQPS/SASD/PAB, B. Hassett <u>CAS NO:</u> 624-83-9 <u>CHEMICAL:</u> METHYL ISOCYANATE <u>PROJECT TYPE:</u> Pre-Regulatory Assessment	<u>CL-BIB-0057</u> <u>TITLE:</u> Health Assessment Document for Beryllium, External Review <u>STATUS:</u> Publish Final Version FY 87 <u>CONTACT:</u> OHA/ECAO-RTP, D. Sivulka <u>CAS NO:</u> 7440-41-7 <u>CHEMICAL:</u> BERYLLIUM <u>PROJECT TYPE:</u> Health Assessment
<u>CL-BIB-0052</u>	<u>TITLE:</u> Decision on Regulation of Xylene Under the Clean Air Act <u>STATUS:</u> In Progress 1987 <u>CONTACT:</u> OAQPS/SASD/PAB, F. Hauchman <u>CAS NO:</u> 1330-20-7 <u>CHEMICAL:</u> XYLENE <u>PROJECT TYPE:</u> Pre-Regulatory Assessment	<u>CL-BIB-0059</u> <u>TITLE:</u> Health Assessment Document for Acrolein <u>STATUS:</u> Publish Final FY 88 <u>CONTACT:</u> OHA/ECAO-RTP, V. Ewald <u>CAS NO:</u> 107-02-8 <u>CHEMICAL:</u> ACROLEIN <u>PROJECT TYPE:</u> Health Assessment

<u>CL-BIB-0061</u>	TITLE: Health Assessment Document for Acetaldehyde, External Review	STATUS: Publish Final Version FY 88	CONTACT: OHEA/ECAO-RTP, W. Ewald	CAS NO: 75-07-0	CHEMICAL: ACETALDEHYDE	PROJECT TYPE: Health Assessment	<u>CL-BIB-0075</u>	TITLE: Risk Analysis of Existing Data on Triethyl Phosphate	STATUS: Ongoing FY 87	CONTACT: OTS/A/RAB, F. Kover	CAS NO: 78-40-0	CHEMICAL: TRIETHYL PHOSPHATE	PROJECT TYPE: Risk Assessment	
<u>CL-BIB-0062</u>	TITLE: Health Assessment Document for Hydrogen Sulfide, External Review	STATUS: Publish Final Version FY 87	CONTACT: OHEA/ECAO-RTP, H. Ammann	CAS NO: 7783-06-4	CHEMICAL: HYDROGEN SULFIDE	PROJECT TYPE: Health Assessment	<u>CL-BIB-0076</u>	TITLE: Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters	STATUS: Ongoing FY 87	CONTACT: OTS/A/RAB, F. Kover	CAS NO: 117-82-8; CL-PHTH	CHEMICAL: DIMETHOXETHYL PHTHALATE	PROJECT TYPE: Risk Assessment	
<u>CL-BIB-0063</u>	TITLE: Health Assessment Document for Phosgene, External Review	STATUS: Publish Final Version FY 87	CONTACT: OHEA/ECAO-RTP, D. Campbell	CAS NO: 75-44-5	CHEMICAL: PHOSGENE	PROJECT TYPE: Health Assessment	<u>CL-BIB-0077</u>	TITLE: Information Gathering and Risk Analysis of Existing Data on Phenylethanol	STATUS: Ongoing FY 87	CONTACT: OTS/A/RAB, F. Kover	CAS NO: 60-12-8	CHEMICAL: PHENYLETHANOL	PROJECT TYPE: Risk Assessment	
<u>CL-BIB-0064</u>	TITLE: Health Assessment Document for Dibenzofurans	STATUS: In Progress FY 87	CONTACT: OHEA/ECAO-CI, D. Mukerjee	CAS NO: 132-64-9	CHEMICAL: DIBENZOFURANS	PROJECT TYPE: Health Assessment	<u>CL-BIB-0078</u>	TITLE: Information Gathering and Risk Analysis of Existing Data on Phenylethanol Acetate	STATUS: Ongoing FY 87	CONTACT: OTS/A/RAB, F. Kover	CAS NO: 103-45-7	CHEMICAL: PHENYLETHANOL ACETATE	PROJECT TYPE: Risk Assessment	
<u>CL-BIB-0069</u>	TITLE: Evaluation of Methods to Estimate Absorbed Doses of Inhaled Oxidants	STATUS: Started FY 84; Complete 12/86	CONTACT: OHEA/EAG, R. Valentowicz	CAS NO: VARIOUS	CHEMICAL: VARIOUS OXIDANTS	PROJECT TYPE: Exposure Assessment	<u>CL-BIB-0079</u>	TITLE: Risk Analysis of Existing Data on Phthalimide	STATUS: Ongoing FY 87	CONTACT: OTS/A/RAB, F. Kover	CAS NO: 85-41-6	CHEMICAL: PHTHALIMIDE	PROJECT TYPE: Risk Assessment	
							<u>CL-BIB-0081</u>	TITLE: Develop Sampling Methods for Speciated Nickel	STATUS: Complete FY 87	CONTACT: EMSL-RTP, F. Butler	CAS NO: 7440-02-0; VARIOUS	CHEMICAL: NICKEL	PROJECT TYPE: Source Sampling	

<u>CL-BIB-0082</u>	Validate an Emission Test Method for Dioxins Complete 6/87 EMSL-RTP, M. Midgett CONTACT: 1746-01-6; CL-DIOXIN CAS NO: CHEMICAL: DIOXINS PROJECT TYPE: Source Sampling	<u>CL-BIB-0102</u> TITLE: Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area STATUS: Complete 11/88 CONTACT: EMSL-RTP, G. Akland CAS NO: CHEMICAL: PESTICIDES PROJECT TYPE: Exposure Assessment
<u>CL-BIB-0084</u>	Source Test Methods for Ammonia and Chlorine Publish 9/87 EMSL-RTP, M. Midgett CONTACT: 7664-41-7; 7782-50-5 CAS NO: CHEMICAL: AMMONIA; CHLORINE PROJECT TYPE: Source Sampling	<u>CL-BIB-0103</u> TITLE: Atmospheric Measurements of Trace Hazardous Organic Chemicals Report Available 6/87 ASRL-RTP, L. Cupitt CONTACT: CAS NO: CHEMICAL: ORGANIC COMPOUNDS PROJECT TYPE: Ambient Monitoring
<u>CL-BIB-0087</u>	Report on Development of New Sampling and Analysis Techniques for Ambient Hazardous Air Pollutants (HAP) Publish 12/87 EMSL-RTP, R. Lewis CONTACT: CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Source Sampling	<u>CL-BIB-0104</u> TITLE: Hazardous Air Pollutants in the Urban Environment Ongoing 1987 ASRL-RTP, L. Cupitt CONTACT: CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Source Sampling, Ambient Monitoring, Source Assessment
<u>CL-BIB-0096</u>	Model of Human Exposures Inside Vehicles on Highways Complete 12/87 EMSL-RTP, D. Mage CONTACT: CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Exposure Assessment	<u>CL-BIB-0105</u> TITLE: Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants Complete FY 87 ASRL-RTP, W. Lonneman CONTACT: CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Source Sampling
<u>CL-BIB-0097</u>	Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air Ongoing 1987 EMSL-RTP, N. Wilson CONTACT: CAS NO: CL-ORGANIC CHEMICAL: ORGANICS PROJECT TYPE: Ambient Monitoring	<u>CL-BIB-0106</u> TITLE: Update of a Data Base on VOC in the Atmosphere Ongoing FY 87 ASRL-RTP, L. Cupitt CONTACT: CAS NO: CHEMICAL: VOLATILE ORGANIC COMPOUNDS (VOC) PROJECT TYPE: Source Sampling, Ambient Monitoring
<u>CL-BIB-0101</u>	Final Report of the Pesticide Total Exposure Study Publish 9/87 EMSL-RTP, A. Bond CONTACT: CAS NO: CHEMICAL: PESTICIDES PROJECT TYPE: Exposure Assessment	<u>(919) 541-4329</u> <u>(919) 541-2878</u>

<u>CL-BIB-0107</u>	TITLE: Harvard University Cooperative Agreement - Monographs On Research and Policy Issues Including Sensitive Individuals, Biological Screening Tests, Air Carcinogen Policy, and Regulation of Toxic and Nuclear Waste	STATUS: Started 6/80; Complete 10/90 CONTACT: ORD/OHR, H. McKinnon CAS NO: VARIOUS CHEMICAL: HAZARDOUS AIR POLLUTANTS PROJECT TYPE: Risk Assessment	<u>CL-BIB-0112</u> TITLE: Determine the Significance of Neurotoxic Response Indicators	STATUS: Started 10/81; Complete 10/88 CONTACT: HERL-RTP, W. Boyes CAS NO: VARIOUS CHEMICAL: HAZARDOUS AIR POLLUTANTS	PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0108</u>	TITLE: Determine Pulmonary Dose-Response Relationships	STATUS: Started 10/81; Complete 9/92 CONTACT: HERL-RTP, E. Grose CAS NO: VARIOUS CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY) PROJECT TYPE: Toxicity Testing	<u>CL-BIB-0113</u> TITLE: Evaluate the Contribution of Source Emissions to Cancer Risk	STATUS: Started 10/83; Complete 10/88 CONTACT: HERL-RTP, J. Lewtas CAS NO: CL-ORGANIC CHEMICAL: ORGANIC COMPOUNDS	PROJECT TYPE: Source Assessment; Risk Assessment; Toxicity Testing
<u>CL-BIB-0109</u>	TITLE: Determine Neurotoxic Dose-Response Relationships	STATUS: Started 10/81; Complete 6/87 CONTACT: HERL-RTP, P. Bushnell CAS NO: VARIOUS CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY) PROJECT TYPE: Toxicity Testing	<u>CL-BIB-0114</u> TITLE: Develop Methods to Identify Reproductive Toxicity of Air Pollutants	STATUS: Started 10/84; Complete 9/90 CONTACT: HERL-RTP, J. Laskey CAS NO: VARIOUS CHEMICAL: VARIOUS	PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0110</u>	TITLE: Characterize Genotoxic Dose-Response Relationships	STATUS: Started 10/79; Complete 10/88 CONTACT: HERL-RTP, J. Lewtas CAS NO: VARIOUS CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY) PROJECT TYPE: Toxicity Testing	<u>CL-BIB-0115</u> TITLE: Integrated Air Cancer Project	STATUS: Started 10/84; Complete 10/90 CONTACT: HERL-RTP, J. Lewtas CAS NO: CL-CARCIN CHEMICAL: VARIOUS	PROJECT TYPE: Combustion; Exposure Assessment
<u>CL-BIB-0111</u>	TITLE: Identify and Evaluate Toxic Components of Air Pollution	STATUS: Started 10/81; Complete 10/89 CONTACT: HERL-RTP; J. Lewtas CAS NO: VARIOUS CHEMICAL: HAZARDOUS AIR POLLUTANTS PROJECT TYPE: Toxicity Testing, Ambient Monitoring	<u>CL-BIB-0116</u> TITLE: Destruction of VOC/HAP Emissions via Catalytic Incineration	STATUS: Started 6/85; Complete 6/88 CONTACT: AEERL-RTP, M. Kosusko CAS NO: CL-VOC CHEMICAL: HAZARDOUS AIR POLLUTANTS; VOC	PROJECT TYPE: Emission Factor

<u>CL-BIB-0120</u>	<p>TITLE: Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment</p> <p>STATUS: Started 3/83; Ongoing-Awaiting Final Report</p> <p>CONTACT: AEERL-RTP, J. Ruppensberger</p> <p>CAS NO: VARIOUS</p> <p>CHEMICAL: DYES</p> <p>SOURCE: Textile Industry</p> <p>PROJECT TYPE: Source Assessment</p>	<p>TITLE: Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility</p> <p>STATUS: Publish 5/87</p> <p>CONTACT: HMERL-CI, B. Blaney</p> <p>CAS NO: CL-HAZWAST</p> <p>CHEMICAL: HAZARDOUS WASTES</p> <p>SOURCE: Hazardous Waste Facilities</p> <p>PROJECT TYPE: Source Assessment</p>
<u>CL-BIB-0128</u>	<p>TITLE: Integrated Air Cancer Project: Wood Stove Operating Profiles</p> <p>STATUS: Started 11/85; Complete 9/87</p> <p>CONTACT: AEERL-RTP, R. McRillis</p> <p>CAS NO: CL-WOOD</p> <p>CHEMICAL: VARIOUS; WOOD SMOKE</p> <p>SOURCE: Combustion</p> <p>PROJECT TYPE: Source Assessment</p>	<p>TITLE: Field Assessment of Steam VOC Removal Efficiencies</p> <p>STATUS: Unpublished Site Test Report; Ongoing</p> <p>CONTACT: HMERL-CI, B. Blaney</p> <p>CAS NO: CL-VOC</p> <p>CHEMICAL: HAZARDOUS WASTES; VOLATILE ORGANIC COMPOUNDS</p> <p>SOURCE: Hazardous Waste Facilities</p> <p>PROJECT TYPE: Source Assessment</p>
<u>CL-BIB-0129</u>	<p>TITLE: Demonstration of Low-Cost Reduction of Indoor Radon From Soil</p> <p>STATUS: Started 9/86; Complete 9/87</p> <p>CONTACT: AEERL-RTP, B. Henschel</p> <p>CAS NO: CL-TAP, 10043-92-2</p> <p>CHEMICAL: INDOOR AIR POLLUTANTS, RADON</p> <p>PROJECT TYPE: Source Assessment</p>	<p>TITLE: Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities</p> <p>STATUS: Unpublished Site Test Reports; Ongoing</p> <p>CONTACT: HMERL-CI, B. Westfall</p> <p>CAS NO: CL-HAZWAST</p> <p>CHEMICAL: HAZARDOUS WASTES</p> <p>SOURCE: Hazardous Waste Facilities</p> <p>PROJECT TYPE: Source Assessment</p>
<u>CL-BIB-0132</u>	<p>TITLE: CO2 Laser Photoacoustic Toxic Vapor Monitoring</p> <p>STATUS: Started 9/85; Complete 5/87</p> <p>CONTACT: AEERL-RTP, M. Jackson</p> <p>CAS NO: VARIOUS</p> <p>CHEMICAL: VARIOUS</p> <p>PROJECT TYPE: Ambient Monitoring</p>	<p>TITLE: Field Assessment of Fate of Organics in Aerated Treatment Systems</p> <p>STATUS: Unpublished Site Test Reports; Ongoing</p> <p>CONTACT: HMERL-CI, B. Blaney</p> <p>CAS NO: CL-HAZWAST; CL-ORGANIC</p> <p>CHEMICAL: HAZARDOUS WASTES; ORGANIC COMPOUNDS</p> <p>SOURCE: Hazardous Waste Facilities</p> <p>PROJECT TYPE: Source Assessment</p>
<u>CL-BIB-0137</u>	<p>TITLE: Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System</p> <p>STATUS: Publish 5/87</p> <p>CONTACT: HMERL-CI, B. Blaney</p> <p>CAS NO: CL-HAZWAST</p> <p>CHEMICAL: HAZARDOUS WASTES</p> <p>SOURCE: Hazardous Waste Facilities</p> <p>PROJECT TYPE: Source Assessment</p>	<p>TITLE: Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water</p> <p>STATUS: Publish Draft 6/87</p> <p>CONTACT: HMERL-ED, M. Royer</p> <p>CAS NO: VARIOUS, CL-VOC, CL-HAZWAST</p> <p>CHEMICAL: VARIOUS, HAZARDOUS WASTE</p> <p>SOURCE: Hazardous Spills</p> <p>PROJECT TYPE: Source Assessment</p>
<u>CL-BIB-0143</u>		

<u>CL-BIB-0145</u>	<u>Rhode Island Toxics Integration Project- Evaluation of Emission from Sewage Treatment Plants</u>	<u>CL-BIB-0152</u>	<u>2-Phase Project to Identify Metro Area Point Sources and Develop an Emissions Inventory</u>
STATUS: In Progress FY 87	CONTACT: EPA Region I, T. D'Avanzo	STATUS: In Progress FY 87	CONTACT: EPA Region VII, B. Chanslor
CAS NO: VARIOUS	CHEMICAL: VARIOUS	CAS NO: VARIOUS	CHEMICAL: VARIOUS
SOURCE: Sewage Treatment Plants	PROJECT TYPE: Source Assessment	PROJECT TYPE: Source Assessment; Exposure Assessment	PROJECT TYPE: Source Assessment; Exposure Assessment
<u>CL-BIB-0146</u>	<u>New York State Stack Sampling of Resource Recovery Plants</u>	<u>CL-BIB-0153</u>	<u>Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers</u>
STATUS: Started 1984; Complete FY 87	CONTACT: EPA Region II, R. Kelly	STATUS: Start 1/86; Ongoing FY 87	CONTACT: EPA Region IX, M. Stenburg
CAS NO: CL-DIOXIN; CL-METAL: 1336-36-3	CHEMICAL: DIOXINS; HEAVY METALS; POLYCHLORINATED BIPHENYLS	CAS NO: 75-21-8	CHEMICAL: ETHYLENE OXIDE
SOURCE: Resource Recovery Plants	PROJECT TYPE: Source Assessment, Source Sampling	SOURCE: Sterilizers; Fumigation Chambers	PROJECT TYPE: Source Assessment; Emission Factor
<u>CL-BIB-0147</u>	<u>Analysis of Acid Precipitation Samples Collected in West Virginia, Delaware, and Maryland</u>	<u>CL-BIB-0155</u>	<u>South Coast Exposure Study</u>
STATUS: Ongoing FY 87	CONTACT: EPA Region III, T. Erdman	STATUS: Complete FY 87	CONTACT: EPA Region IX, M. Stenburg
CAS NO: VARIOUS	CHEMICAL: VARIOUS	CAS NO: VARIOUS	CHEMICAL: VARIOUS
PROJECT TYPE: Source Sampling	PROJECT TYPE: Source Sampling	PROJECT TYPE: Exposure Assessment	PROJECT TYPE: Exposure Assessment
<u>CL-BIB-0148</u>	<u>Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes</u>	<u>CL-BIB-0156</u>	<u>Source` Assessment Manual - Development of Ambient Guidelines for Non-Cancer Effects</u>
STATUS: To Be Completed FY 87	CONTACT: EPA Region IV, M. Russell	STATUS: In Progress FY 87	CONTACT: EPA Region IX, M. Stenburg
CAS NO: 7640-47-3	CHEMICAL: CHROMIUM	CAS NO: VARIOUS	CHEMICAL: VARIOUS
SOURCE: Chemical Industry, Ferrochromium Alloy Production	PROJECT TYPE: Source Assessment	PROJECT TYPE: Source Assessment	PROJECT TYPE: Source Assessment
<u>CL-BIB-0151</u>	<u>Gulf Coast Community Exposure Study</u>	<u>CL-BIB-0157</u>	<u>Contra Costa Exposure Study</u>
STATUS: To Be Completed FY 87	CONTACT: EPA Region VI, J. Lyons	STATUS: In Progress FY 87	CONTACT: EPA Region IX, M. Stenburg
CAS NO: VARIOUS	CHEMICAL: VARIOUS	CAS NO: VARIOUS	CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment	PROJECT TYPE: Exposure Assessment	PROJECT TYPE: Exposure Assessment	PROJECT TYPE: Exposure Assessment

<u>CL-BIB-0159</u>	TITLE: Pesticide Impact Study from Field and Slash Burning STATUS: Started 1986; Ongoing FY 87 CONTACT: EPA Region X, L. McPhillips (206) 442-1757 CAS NO: CL-PEST; CL-PM; CL-POH CHEMICAL: PESTICIDES; PARTICULATE MATTER; POLYCYCLIC ORGANIC MATTER SOURCE: Agricultural; Forestry PROJECT TYPE: Source Assessment	<u>CL-BIB-0165</u> TITLE: Behavioral Teratology of Alcohol Solvents STATUS: Started 10/82; Complete 12/87 CONTACT: NIOSH/DBBS/APEB, K. Anger (513) 533-8383 CAS NO: CL-SOLVENT CHEMICAL: ALCOHOL SOLVENTS; SOLVENTS PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0161</u>	TITLE: Particulate and Tissue Analysis Service and Research STATUS: Started 10/82; Continuing CONTACT: NIOSH/DBBS/ABPB, F. Platek (513) 533-8400 CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Toxicity Testing	<u>CL-BIB-0166</u> TITLE: Neurotoxicity of Aliphatic Carbon Solvents STATUS: Started 10/83; Complete 1/88 CONTACT: NIOSH/DBBS/APEB, J. Russo (513) 533-8383 CAS NO: CL-SOLVENT CHEMICAL: SOLVENTS PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0162</u>	TITLE: Evaluation of Mesothelioma Production by Asbestos Substitutes STATUS: Started 10/84; Complete 6/90 CONTACT: NIOSH/DBBS/ABPB, F. Platek (513) 533-8400 CAS NO: 1332-21-4; VARIOUS CHEMICAL: ASBESTOS; ASBESTOS SUBSTITUTES PROJECT TYPE: Toxicity Testing	<u>CL-BIB-0167</u> TITLE: Neurobehavioral Effects from Single/Mixed Spray Paint Agents STATUS: Started 10/79; Complete 1/88 CONTACT: NIOSH/DBBS/APEB, R. Dick (513) 533-8383 CAS NO: VARIOUS CHEMICAL: PAINTS; KETONES PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0163</u>	TITLE: Biomonitoring of Exposure to Coal Tar STATUS: Started 10/83; Complete 9/87 CONTACT: NIOSH/DBBS/ABPB, B. Tolos (513) 533-8383 CAS NO: 129-00-0; VARIOUS CHEMICAL: PIRENE; COAL TAR PROJECT TYPE: Health Assessment	<u>CL-BIB-0168</u> TITLE: Neurotoxicity from Exposure to Heavy Metals STATUS: Started 10/84; Complete 9/88 CONTACT: NIOSH/DBBS/APEB, K. Anger (513) 533-8383 CAS NO: 7440-43-9; CL-METAL CHEMICAL: CADMIUM; HEAVY METALS PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0164</u>	TITLE: Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone STATUS: Started 9/85; Complete 9/87 CONTACT: NIOSH/DBBS/ABPB, F. Phipps (513) 533-8383 CAS NO: 78-93-3 CHEMICAL: METHYL ETHYL KETONE PROJECT TYPE: Health Assessment	<u>CL-BIB-0169</u> TITLE: Methodologies for Worksite Neurotoxicity STATUS: Started 10/84; Complete 9/88 CONTACT: NIOSH/DBBS/APEB, K. Anger (513) 533-8383 CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Toxicity Testing; Epidemiology Study
		<u>CL-BIB-0174</u> TITLE: Assessment of Cocarcinogenic Activity of Asphalt Fumes STATUS: Started 10/82; Complete 9/88 CONTACT: NIOSH/DBBS/ETB, T. Lewis (513) 533-8392 CAS NO: 8052-42-4 CHEMICAL: ASPHALT PROJECT TYPE: Toxicity Testing

<u>CL-BIB-0175</u>	TITLE: Inhalation Reproductive and Developmental Toxicity Testing STATUS: Started 10/84; Complete 9/89 CONTACT: NIOSH/DBBS/ETB, S. Schrader CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Toxicity Testing	TITLE: Evaluation of <i>Drosophila</i> for Teratogen Screening STATUS: Started 10/81; Complete 12/87 CONTACT: NIOSH/DBBS/ETB, D. Lynch CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0178</u>	TITLE: Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether(Diglyme) STATUS: Started 10/84; Complete 9/87 CONTACT: NIOSH/DBBS/ETB, D. Richards CAS NO: 111-96-6 CHEMICAL: Bis(2-Methoxyethyl)ether PROJECT TYPE: Toxicity Testing	TITLE: Temporal Factors Influencing Carcinogenicity of Industrial Chemicals STATUS: Started 10/85; Complete 9/90 CONTACT: NIOSH/DBBS/ETB, W. Moorman CAS NO: 75-21-8 CHEMICAL: Ethylene oxide SOURCE: Chemical Industry PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0181</u>	TITLE: V205- NTP Chemical Manager STATUS: Started 10/83; Complete 9/90 CONTACT: NIOSH/DBBS/ETB, W. Moorman CAS NO: 1314-62-1 CHEMICAL: Vanadium pentoxide PROJECT TYPE: Toxicity Testing	TITLE: Vyssinosis Prevention STATUS: Started 10/81; Complete FY 86 CONTACT: NIOSH/DRDS/CIB, R. Castellan CAS NO: VARIOUS CHEMICAL: Cotton dusts SOURCE: Textile Industry PROJECT TYPE: Epidemiology Study; Toxicity Testing
<u>CL-BIB-0182</u>	TITLE: In Vitro Tests for Workplace Carcinogens STATUS: Started 10/80; Complete 9/88 CONTACT: NIOSH/DBBS/ETB, J. Bohrman CAS NO: CL-CARCIN CHEMICAL: VARIOUS PROJECT TYPE: Toxicity Testing	TITLE: Occupational Lung Disease Associated with Exposure to Diesel Emissions STATUS: Started 10/81; Complete 9/87 CONTACT: NIOSH/DRDS/ENIB, M. McCawley CAS NO: CL-DIESEL CHEMICAL: Diesel exhaust PROJECT TYPE: Epidemiology Study
<u>CL-BIB-0186</u>	TITLE: Dimethylformamide- NTP Chemical Manager STATUS: Started 9/85; Complete 9/92 CONTACT: NIOSH/DBBS/ETB, T. Lewis CAS NO: 68-12-2 CHEMICAL: Dimethylformamide PROJECT TYPE: Toxicity Testing	TITLE: Effective Silica Indices of Respirable Mineral Dusts STATUS: Started 10/84; Complete 9/88 CONTACT: NIOSH/DRDS/ENIB, W. Wallace CAS NO: 7631-86-9 CHEMICAL: Silica PROJECT TYPE: Source Sampling
<u>CL-BIB-0188</u>	TITLE: Semen Analysis in Animals, Longitudinal and Field Studies STATUS: Started 10/84; Complete 10/88 CONTACT: NIOSH/DBBS/ETB, S. Schrader CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Toxicity Testing	

<u>CL-BIB-0198</u>	National Occupational Health Survey of Mining Started 10/82; Complete 12/90 NIOSH/DRDS/ENIB, D. Groce CONTACT: VARIOUS CAS NO: VARIOUS CHEMICAL: VARIOUS SOURCE: Mining PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0206</u> National Coal Study and Coal Worker Surveillance Started 10/81; Continuing FY 87 NIOSH/DRDS/EPIB, M. Attfield CONTACT: VARIOUS CAS NO: COAL DUST CHEMICAL: COAL DUST SOURCE: Mining PROJECT TYPE: Epidemiology Study
<u>CL-BIB-0199</u>	Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action Started 10/85; Complete 9/88 NIOSH/DRDS/ENIB, J. Peach CONTACT: CL-ORGANIC; CAS NO: CL-ORGANIC; CHEMICAL: AEROSOLS; ORGANIC COMPOUNDS; SOURCE: Office Buildings PROJECT TYPE: Source Assessment, Indoor Air	<u>CL-BIB-0207</u> Study of Workers in the Dusty Trades in North Carolina - NCI Started FY 84; Continuing FY 87 NIOSH/DRDS/EPIB, H. Amandus CONTACT: 7631-86-9; 1332-21-4 CAS NO: SILICA; ASBESTOS CHEMICAL: SILICA SOURCE: Sand Industry PROJECT TYPE: Epidemiology Study
<u>CL-BIB-0201</u>	Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions Completed 9/84; In Publication FY 87 NIOSH/DRDS/EPIB, J. Gamble CONTACT: CL-DIESEL CAS NO: CL-DIESEL EXHAUST; COAL DUST CHEMICAL: Mining SOURCE: Welders PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0208</u> Health Experience of Industrial Sand Workers Started FY 84; Continuing NIOSH/DRDS/EPIB, H. Amandus CONTACT: 7631-86-9 CAS NO: SILICA CHEMICAL: Sand Industry SOURCE: Epidemiology Study
<u>CL-BIB-0202</u>	Morbidity and Industrial Hygiene Study Of Mild Steel Welders Complete 1994 NIOSH/DRDS/EPIB, J. Gamble CONTACT: 1332-37-2; CL-WELD CAS NO: IRON OXIDE; IRON OXIDE FUME, WELDING FUMES CHEMICAL: Welding; Steel Industry SOURCE: Welding PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0210</u> Effects of Formaldehyde on the Respiratory System Complete FY 89 NIOSH/DRDS/EPIB, J. Gamble CONTACT: 50-00-0 CAS NO: FORMALDEHYDE CHEMICAL: Epidemiology Study
<u>CL-BIB-0205</u>	Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners Complete 9/85; In Publication FY 87 NIOSH/DRDS/EPIB, H. Amandus CONTACT: 7631-86-9 CAS NO: SILICA CHEMICAL: Mining SOURCE: Office Buildings PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0211</u> Epidemiologic Environmental Study - Office Workers Draft FY 89 NIOSH/DRDS/EPIB, J. Gamble CONTACT: CL-IAP CAS NO: VARIOUS CHEMICAL: VARIOUS; INDOOR AIR POLLUTANTS SOURCE: Office Buildings PROJECT TYPE: Epidemiology Study

<u>CL-BIB-0212</u>	TITLE: Prospective Study of Welders of Mild Steel STATUS: Draft FY 89 CONTACT: NIOSH/DRDS/EPIB, J. Gamble CAS NO: CL-WELD CHEMICAL: WELDING FUMES SOURCE: Welding PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0218</u> TITLE: Alveolar Type II Cells; Effect of Silica STATUS: Started 10/86; Complete 9/88 CONTACT: NIOSH/DRDS/LIB, J. Rabovsky CAS NO: 7631-86-9 CHEMICAL: SILICA SOURCE: Coal Mining PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0213</u>	TITLE: Mortality of Diesel Exposed Miners STATUS: Draft FY 89 CONTACT: NIOSH/DRDS/EPIB, J. Gamble CAS NO: CL-DIESEL CHEMICAL: DIESEL EXHAUST SOURCE: Mining PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0219</u> TITLE: Mortality Analysis of United Auto Workers Cohorts STATUS: Started 10/80; Completed 9/83; In Publication 1/86 CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe CAS NO: VARIOUS CHEMICAL: VARIOUS SOURCE: Automobile Industry PROJECT TYPE: Epidemiology Study
<u>CL-BIB-0214</u>	TITLE: Endotoxins in Cotton- USDA STATUS: Started 10/82; Complete 9/87 CONTACT: NIOSH/DRDS/LIB, S. Olenchock CAS NO: VARIOUS CHEMICAL: COTTON DUSTS PROJECT TYPE: Epidemiology Study; Toxicity Testing	<u>CL-BIB-0221</u> TITLE: Mortality Study of Chemical Plants in Kanawha Valley, West Virginia STATUS: Started 10/79; complete FY 87 CONTACT: NIOSH/DSHEFS/IWSB, R. Rinsky CAS NO: 75-21-8 CHEMICAL: ETHYLENE OXIDE SOURCE: Chemical Industry PROJECT TYPE: Epidemiology Study
<u>CL-BIB-0216</u>	TITLE: Comparative Research in Analytical Pathology STATUS: Started 10/82; Continuing CONTACT: NIOSH/DRDS/LIB, V. Vallyathan CAS NO: VARIOUS CHEMICAL: COTTON DUSTS; VARIOUS SOURCE: Coal Mining; Mining; Textile Industry PROJECT TYPE: Epidemiology Study; Toxicity Testing	<u>CL-BIB-0222</u> TITLE: Mortality and Industrial Hygiene Study of Workers Exposed to Toluene STATUS: Started 10/79; Complete FY 86; Final Report in Review CONTACT: NIOSH/DSHEFS/IWSB, F. Stern CAS NO: 108-88-3 CHEMICAL: TOLUENE SOURCE: Chemical Industry PROJECT TYPE: Epidemiology Study
<u>CL-BIB-0217</u>	TITLE: Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms STATUS: Started FY 86; complete 12/88 CONTACT: NIOSH/DRDS/LIB, N. Hahon CAS NO: 50-32-8; 1332-21-4; 7631-86-9 CHEMICAL: BENZO(A)PYRENE; ASBESTOS; SILICA; COAL DUST SOURCE: Mining PROJECT TYPE: Toxicity Testing	<u>CL-BIB-0223</u> TITLE: Mortality and Industrial Hygiene Study of Formaldehyde STATUS: Started 10/80; Continuing FY 87 CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner CAS NO: 50-00-0 CHEMICAL: FORMALDEHYDE SOURCE: Formaldehyde PROJECT TYPE: Epidemiology Study

<u>CL-BIB-0224</u>	TITLE: Ethylene Oxide Mortality Study - NCI STATUS: Started 10/82; Complete FY 88 CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland CAS NO: 75-21-8 CHEMICAL: ETHERENE OXIDE PROJECT TYPE: Epidemiology Study	TITLE: Beryllium Retrospective Cohort Investigation - NCI STATUS: Started 10/81; Complete FY 87 CONTACT: NIOSH/DSHEFS/IWSB, L. Ward CAS NO: 7440-41-7 CHEMICAL: BERYLLIUM PROJECT TYPE: Epidemiology Study
<u>CL-BIB-0225</u>	TITLE: Investigation of Workers Exposed to MOCA STATUS: Started 10/82; Complete FY 87 CONTACT: NIOSH/DSHEFS/IWSB, E. Ward CAS NO: 101-14-4 CHEMICAL: MOCA PROJECT TYPE: Epidemiology Study	TITLE: Medical, Biometric and Industrial Hygiene Study of Emerging Problems STATUS: Started 10/79; Continuing CONTACT: NIOSH/DSHEFS/IWSB, W. Halperin CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Epidemiology Study
<u>CL-BIB-0226</u>	TITLE: Mortality of Dioxin Workers STATUS: Started 10/79; Complete FY 87 CONTACT: NIOSH/DSHEFS/IWSB, M. Fingerhut CAS NO: 95-95-4; 87-86-5; CL-DIOXIN CHEMICAL: DIOXINS; 2,4,5-TRICHLOROPHENOL; PENTACHLOROPHENOL PROJECT TYPE: Epidemiology Study	TITLE: Health Hazard Evaluations and Technical Assistance STATUS: Started 10/80; Continuing CONTACT: NIOSH/DSHEFS/IWSB, J. Metius CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Epidemiology Study; Health Assessment
<u>CL-BIB-0227</u>	TITLE: Update of Completed Cohort Mortality Studies - NCI STATUS: Started 10/82; Continuing CONTACT: NIOSH/DSHEFS/IWSB, D. Brown CAS NO: 1336-36-3; 127-18-4; 100-42-5; 106-99-0; 71-43-2; 7440-43-9; 75-01-4; CL-PEST; CHEMICAL: POLYCHLORINATED BIPHENYLS (PCBs); PERCHLOROETHYLENE; PESTICIDES; RUBBER; STYRENE; BUTADIENE; BENZENE; CADMIUM; VINYL CHLORIDE PROJECT TYPE: Epidemiology Study	TITLE: Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA STATUS: Started 10/81; Continuing CONTACT: NIOSH/DSHEFS/IWSB, D. Brown CAS NO: 117-81-7; 75-21-8; 50-00-0; 101-14-4; DEHP; ETHYLENE OXIDE; MOCA; FORMALDEHYDE; ORGANOTIN; GLYCOL ETHERS CHEMICAL: PROJECT TYPE: Epidemiology Study; Health Assessment
<u>CL-BIB-0228</u>	TITLE: Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI STATUS: Started 10/82; Complete FY 87 CONTACT: NIOSH/DSHEFS/IWSB, J. Walker CAS NO: 7440-47-3; 7758-97-6 CHEMICAL: LEAD CHROMATE; CHROMIUM PROJECT TYPE: Epidemiology Study	TITLE: Cohort Mortality Study of Antimony Smelter Workers STATUS: Started FY 84; In Progress FY 87 CONTACT: NIOSH/DSHEFS/IWSB, T. Schnorr CAS NO: 7440-36-0 CHEMICAL: ANTIMONY SOURCE: Smelters PROJECT TYPE: Epidemiology Study

<u>CL-BIB-0234</u>	Title: Exposure to Butadiene in the Industrial Environment Status: Started FY 84; In Progress FY 87 Contact: NIOSH/DSHEFS/IWSB, J. Fajen CAS No: 106-99-0 Chemical: BUTADIENE Source: Chemical Industry Project Type: Exposure Assessment	<u>CL-BIB-0241</u> Title: Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills Status: Started FY 84; In Progress FY 87 Contact: NIOSH/DSHEFS/IWSB, K. Steenland CAS No: 7664-93-9 Chemical: SULFURIC ACID Source: Steel Industry Project Type: Epidemiology Study
<u>CL-BIB-0236</u>	Title: Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin Status: Started FY 84; In Progress FY 88 Contact: NIOSH/DSHEFS/IWSB, M. Sweeny CAS No: 1746-01-6; CL-DIOXIN Chemical: DIOXINS; 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN Project Type: Epidemiology Study	<u>CL-BIB-0242</u> Title: Study of Lung Cancer Mortality Among Teamsters Status: Started FY 84; In Progress FY 87 Contact: NIOSH/DSHEFS/IWSB, K. Steenland CAS No: CL-DIESEL Chemical: DIESEL EXHAUST Source: Mobile Sources Project Type: Epidemiology Study
<u>CL-BIB-0238</u>	Title: Mortality Study of Workers Exposed to Chlorinated Naphthalenes Status: Started FY 84; In Progress FY 87 Contact: NIOSH/DSHEFS/IWSB, E. Ward CAS No: VARIOUS; CL-ORGANIC Chemical: CHLORINATED NAPHTHALENES Project Type: Epidemiology Study	<u>CL-BIB-0243</u> Title: Cohort Mortality Study of Toluene Diisocyanate Exposed Workers Status: Started FY 84; In Progress FY 87 Contact: NIOSH/DSHEFS/IWSB, T. Schnorr CAS No: 26471-62-5 Chemical: TOLEUENE DIISOCYANATE Project Type: Epidemiology Study
<u>CL-BIB-0239</u>	Title: Causes of Mortality Among Workers Exposed to Methyleneedianiline (MDA) Status: Started FY 84; In Progress FY 88 Contact: NIOSH/DSHEFS/IWSB, M. Boeniger CAS No: 101-77-9 Chemical: METHYLENEDIANILINE Project Type: Epidemiology Study	<u>CL-BIB-0244</u> Title: Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI Status: Started FY 84; In Progress FY 87 Contact: NIOSH/DSHEFS/IWSB, R. Roscoe CAS No: 10043-92-2; VARIOUS Chemical: RADON; VARIOUS Source: Uranium Mines; Mining Project Type: Epidemiology Study
<u>CL-BIB-0240</u>	Title: Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium Status: Started FY 84; In Progress FY 87 Contact: NIOSH/DSHEFS/IWSB, K. Steenland CAS No: CL-WELD Chemical: WELDING FUMES Source: Steel Industry; Welding Project Type: Epidemiology Study	<u>CL-BIB-0246</u> Title: Mortality of Sulfuric Acid Exposed Workers Status: In Publication FY 86 Contact: NIOSH/DSHEFS/IWSB, J. Beaumont CAS No: 7664-93-9 Chemical: SULFURIC ACID Source: Steel Industry Project Type: Epidemiology Study

<u>CL-BIB-0247</u>	Morbidity and Mortality Study of Workers Exposed to Nitroglycerin Ongoing 1987 CONTACT: NIOSH/DSHEFS/118B, L. Stayner CAS NO: 55-63-0 CHEMICAL: NITROGLYCERIN SOURCE: Dynamite; Chemical Industry PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0254</u> TITLE: Acrolein Preliminary Source Assessment STATUS: Publish 11/87 CONTACT: OAQPS/ESED/CPB; Les Evans CAS NO: CHEMICAL: ACROLEIN SOURCE: Combustion Sources, esp. Woodburning PROJECT TYPE: Source Assessment
<u>CL-BIB-0249</u>	A Study of Worker Exposure to Grain Fumigants Ongoing 1987 CONTACT: NIOSH/DSHEFS/118B, I. Zaebst CAS NO: VARIOUS CHEMICAL: GRAIN FUMIGANTS SOURCE: Grain Handling, Agriculture PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0255</u> TITLE: Phosgene Preliminary Source Assessment STATUS: In Progress FY 87 CONTACT: OAQPS/ESED/CPB; Les Evans CAS NO: 75-44-5 CHEMICAL: PHOSGENE SOURCE: Phosgene Production and Use PROJECT TYPE: Source Assessment
<u>CL-BIB-0250</u>	Occupational Exposure During Sugar Cane Harvesting Ongoing 1987 CONTACT: NIOSH/DSHEFS/118B, M. Boeniger CAS NO: 7631-86-9; CL-POM CHEMICAL: SILICA FIBERS; POLYCYCLIC ORGANIC MATTER SOURCE: Sugar Cane Harvesting; Agriculture PROJECT TYPE: Exposure Assessment	<u>CL-BIB-0256</u> TITLE: Acetaldehyde Preliminary Source Assessment STATUS: Publish 11/87 CONTACT: OAQPS/ESED/CPB; Les Evans CAS NO: 75-07-0 CHEMICAL: ACETALDEHYDE SOURCE: Combustion Sources - esp. Woodburning PROJECT TYPE: Source Assessment
<u>CL-BIB-0252</u>	Access to National Occupational Hazard Survey Data Base Profile Development Started 10/78; Continuing CONTACT: NIOSH/DSHEFS/SB, J. Seta CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0257</u> TITLE: Engineering Study: Standards Development for Hazardous Waste Proposal 3/88 CONTACT: OAQPS/ESED/CPB; K. Nestvedt CAS NO: CL-HAZMAT CHEMICAL: HAZARDOUS WASTE PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0253</u>	Surveillance Cooperative Agreements Between NIOSH and States Started 10/79; Continuing FY 87 CONTACT: NIOSH/DSHEFS/SB, M. Crouse CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Epidemiology Study	<u>CL-BIB-0258</u> TITLE: Assessment of Potential Emissions from Wafer Board Manufacturing Plants In Progress FY 87 CONTACT: OAQPS/ESED/1SB; Lee Beck CAS NO: CL-RESIN, CL-ORGANIC CHEMICAL: VARIOUS PROJECT TYPE: Source Assessment

<u>CL-BIB-0259</u>	TITLE: Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions STATUS: Publish 5/87 CONTACT: OAQPS/ESED/ISB; Lee Beck CAS NO: 26471-62-5 CHEMICAL: TOLUENE DIISOCYANATE (TDI) PROJECT TYPE: Source Assessment	TITLE: Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASP/PAB; B. Riddle CAS NO: 74-90-8 CHEMICAL: HYDROCYANIC ACID PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0260</u>	TITLE: Chromium Project for Industrial Cooling Towers STATUS: Proposed 8/87 CONTACT: OAQPS/ESED/SDB; G. Wood CAS NO: 7440-47-3 CHEMICAL: CHROMIUM SOURCE: Industrial Cooling Towers PROJECT TYPE: Regulations or Rules (TSCA)	TITLE: Decision on Regulation of Propylene Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASP/PAB; N. Pace CAS NO: 115-07-1 CHEMICAL: PROPYLENE PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0261</u>	TITLE: Hazardous Organic NESMAP STATUS: Proposed 9/87 CONTACT: OAQPS/ESED/SDB; D. Bell CAS NO: 106-99-0, 75-09-2, 127-18-4, 79-01-6, 56-23-5 CHEMICAL: BUTADIENE, METHYLENE CHLORIDE, PERCHLOROETHYLENE, TRICHLOROETHYLENE, CARBON TETRACHLORIDE, CHLOROFORM, ETHYLENE DICHLORIDE, ETHYLENE OXIDE PROJECT TYPE: NESMAP	TITLE: Municipal Waste Combustion Study STATUS: In Progress 1987 CONTACT: OAQPS/SASP/PAB; R. Morrison CAS NO: VARIOUS CHEMICAL: VARIOUS SOURCE: Municipal Waste Combustion PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0262</u>	TITLE: Locating and Estimating Air Emissions from Sources of Benzene Complete FY 88 STATUS: OAQPS/MDAD/AMTB; W. Kuykendahl CAS NO: 71-43-2 CHEMICAL: BENZENE PROJECT TYPE: Emissions Factor; Source Assessment	TITLE: Decision on Regulation of Phosphorus Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASP/PAB; S. Voorhees CAS NO: 7723-14-0 CHEMICAL: PHOSPHORUS PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0263</u>	TITLE: Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM) Complete FY 87 STATUS: OAQPS/MDAD/AMTB; T. Lahre CAS NO: CL-ORGANIC CHEMICAL: POLYCYCLIC ORGANIC MATERIAL (POM) PROJECT TYPE: Emission Factor, Source Assessment	TITLE: Decision on Regulation of Ethyl Chloride Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASP/PAB; B. Hassett CAS NO: 75-00-3 CHEMICAL: ETHYL CHLORIDE PROJECT TYPE: Pre-Regulatory Assessment

<u>CL-BIB-0269</u>	TITLE: Decision on Regulation of Dimethylamine Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; B. Hassett CAS NO: 124-40-3 CHEMICAL: DIMETHYLAMINE PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0274</u> TITLE: Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; U. Peters CAS NO: 7664-39-3 CHEMICAL: HYDROGEN FLUORIDE PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0270</u>	TITLE: Decision on Regulation of Selenium and its Compounds Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; I. Cote CAS NO: 7782-49-2 CHEMICAL: SELENIUM AND ITS COMPOUNDS PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0275</u> TITLE: Decision on Regulation of Methyl Methacrylate Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; I. Cote CAS NO: 80-62-6 CHEMICAL: METHYL METHACRYLATE PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0271</u>	TITLE: Decision on Regulation of Phthalic Anhydride Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; F. Hauchman CAS NO: 85-44-9 CHEMICAL: PHthalic ANHYDRIDE PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0276</u> TITLE: Decision on Regulation of Maleic Anhydride Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; F. Hauchman CAS NO: 108-31-6 CHEMICAL: MALEIC ANHYDRIDE PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0272</u>	TITLE: Decision on Regulation of Sodium Hydroxide Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; T. Mohin CAS NO: 1310-73-2 CHEMICAL: SODIUM HYDROXIDE PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0277</u> TITLE: Decision on Regulation of Mercuric Chloride Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; R. Morrison CAS NO: 7487-94-7 CHEMICAL: MERCURIC CHLORIDE PROJECT TYPE: Pre-Regulatory Assessment
<u>CL-BIB-0273</u>	TITLE: Decision on Regulation of Camphochlor Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; B. Riddle CAS NO: 8001-35-2 CHEMICAL: CAMPHOCHLOR PROJECT TYPE: Pre-Regulatory Assessment	<u>CL-BIB-0278</u> TITLE: Decision on Regulation of Methanol Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OAQPS/SASD/PAB; D. Cleverly CAS NO: 67-56-1 CHEMICAL: METHANOL PROJECT TYPE: Pre-Regulatory Assessment

<u>CL-BIB-0279</u>	TITLE: Health Assessment for Chromium, Update STATUS: In Progress FY 87 CONTACT: OHEA/ECAO-RTP; S. Duk Lee CAS NO: 7440-47-3 CHEMICAL: CHROMIUM PROJECT TYPE: Health Assessment	TITLE: Chemical Hazard Information Profile for Benzotriazol-Based UV Light STATUS: In Preparation 1987 CONTACT: OTS/A/CSB; J. Leitzke CAS NO: 95-14-7, VARIOUS CHEMICAL: BENZOTRIAZOL SOURCE: UV Light Stabilizers PROJECT TYPE: CHIP	STATUS: (202) 382-3507
<u>CL-BIB-0280</u>	TITLE: Hydrogen Chloride, External Review STATUS: In Progress FY 87 CONTACT: OHEA/ECAO-RTP; B. Comfort CAS NO: 7782-50-5, 7647-01-0 CHEMICAL: CHLORINE, HYDROGEN CHLORIDE PROJECT TYPE: Health Assessment	TITLE: Chemical Hazard Information Profile for Piperonyl-Based UV Light Stabilizers STATUS: In Preparation 1987 CONTACT: OTS/A/CSB; J. Leitzke CAS NO: 1893-33-0 CHEMICAL: PIPERONYL SOURCE: UV Light Stabilizers PROJECT TYPE: CHIP	STATUS: (202) 382-3507
<u>CL-BIB-0281</u>	TITLE: Development of Methods to Interpret Metabolism Data STATUS: Started January 1985; Complete 7/87 CONTACT: OHEA/EAG; R. Walentowicz PROJECT TYPE: Exposure Assessment, Toxicity Testing	TITLE: Toxics Air Monitoring Systems (TAMS) STATUS: Ongoing 1987; Complete 1991 CONTACT: ORD/EMSL-RTP; G. Evans CAS NO: CL-VOC CHEMICAL: VOC PROJECT TYPE: Ambient Monitoring	STATUS: (919) 541-3124
<u>CL-BIB-0282</u>	TITLE: Health Assessment for Trichloroethylene-Cancer Update STATUS: In Progress FY 87 CONTACT: OHEA/CAG; Charlie Ris CAS NO: 79-01-6 CHEMICAL: TRICHLOROETHYLENE PROJECT TYPE: Health Assessment	TITLE: Analytical Methods Development for Toxic Substances STATUS: Started 10/89; Complete 12/89 CONTACT: EMSL-RTP; R.E. Lee CAS NO: CL-WOOD, CL-PM CHEMICAL: WOOD SMOKE, PARTICULATE MATTER PROJECT TYPE: Wood Smoke	STATUS: (919) 541-2106
<u>CL-BIB-0283</u>	TITLE: Chemical Hazard Information Profile for Methyl Carbamate STATUS: In Preparation 1987 CONTACT: OTS/A/CSB; J. Leitzke CAS NO: 598-55-0 CHEMICAL: METHYL CARBAMATE PROJECT TYPE: CHIP	TITLE: Development Ambient Methods for Hazardous Waste STATUS: Started 10/82, Complete 12/89 CONTACT: EMSL-RTP; R.E. Lee CAS NO: CL-HAZWAST CHEMICAL: HAZARDOUS WASTE PROJECT TYPE: Ambient Monitoring	STATUS: (919) 541-2106

<u>CL-BIB-0289</u>	<u>TITLE:</u> Develop Source Methods for Hazardous Waste	<u>STATUS:</u> Started 10/86; Complete 9/88	<u>CONTACT:</u> EMSL - RTP; M.R. Midgett	<u>CAS NO:</u> CL-HAZWAST	<u>CHEMICAL:</u> HAZARDOUS WASTE	<u>PROJECT TYPE:</u> Source Sampling	<u>TITLE:</u> Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data	<u>STATUS:</u> Ongoing FY 87	<u>CONTACT:</u> EPA Region V; John Summerhayes	<u>CAS NO:</u> CL-CARCIN	<u>CHEMICAL:</u> CARCINOGENS	<u>SOURCE:</u> Airports	<u>PROJECT TYPE:</u> Dispersion Modeling, Ambient Monitoring
<u>CL-BIB-0290</u>	<u>TITLE:</u> Indoor Air Quality Research	<u>STATUS:</u> Started 10/86; Complete 9/90	<u>CONTACT:</u> EMSL - RTP; C.E. Rodes	<u>CAS NO:</u> CL-TAP	<u>CHEMICAL:</u> INDOOR AIR POLLUTANTS	<u>PROJECT TYPE:</u> Indoor Air, Source Assessment, Exposure Assessment, Health Assessment	<u>TITLE:</u> Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF	<u>STATUS:</u> Ongoing FY 87	<u>CONTACT:</u> EPA Region V; Harriet Croke	<u>CAS NO:</u> VARIOUS	<u>CHEMICAL:</u> VARIOUS	<u>SOURCE:</u> TSDF	<u>PROJECT TYPE:</u>
<u>CL-BIB-0291</u>	<u>TITLE:</u> Monitoring Human Exposure to HAPS	<u>STATUS:</u> Started 10/82; Complete 12/89	<u>CONTACT:</u> EMSL - RTP; V.R. Highsmith	<u>CAS NO:</u> VARIOUS	<u>CHEMICAL:</u> VARIOUS	<u>PROJECT TYPE:</u> Exposure Assessment	<u>TITLE:</u> Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho	<u>STATUS:</u> Ongoing FY 87	<u>CONTACT:</u> EPA Region X; John Schweiss	<u>CAS NO:</u> VARIOUS	<u>CHEMICAL:</u> VARIOUS	<u>SOURCE:</u> Sugar Beet Processing Plant	<u>PROJECT TYPE:</u>
<u>CL-BIB-0292</u>	<u>TITLE:</u> Dioxin Analysis of Hospital Incinerator Ash	<u>STATUS:</u> Publish Draft 5/87	<u>CONTACT:</u> EPA Region I; S. Levinson	<u>CAS NO:</u> CL-DIOXIN	<u>CHEMICAL:</u> DIOXIN	<u>PROJECT TYPE:</u> Hospitals, Incinerators Source Assessment	<u>TITLE:</u> Methods for Air Pollution in Puget Sound	<u>STATUS:</u> Ongoing FY 87	<u>CONTACT:</u> EPA Region X; Naydene Maykut	<u>CAS NO:</u> VARIOUS	<u>CHEMICAL:</u> VARIOUS	<u>SOURCE:</u> Source Assessment, Ambient Monitoring	<u>PROJECT TYPE:</u>
<u>CL-BIB-0293</u>	<u>TITLE:</u> The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	<u>STATUS:</u> To be Completed March 1987	<u>CONTACT:</u> EPA Region III; D. Ryan	<u>CAS NO:</u> VARIOUS	<u>CHEMICAL:</u> VARIOUS	<u>PROJECT TYPE:</u> Wastewater Treatment Facility Source Sampling	<u>TITLE:</u> Study to Define and Determine Mitigation Methods for Air Pollution in Puget Sound	<u>STATUS:</u> Ongoing FY 87	<u>CONTACT:</u> EPA Region X; Naydene Maykut	<u>CAS NO:</u> VARIOUS	<u>CHEMICAL:</u> VARIOUS	<u>SOURCE:</u> Source Assessment, Control Technology	<u>PROJECT TYPE:</u>
<u>CL-BIB-0298</u>	<u>TITLE:</u> Ambient Air Monitoring in Portland, Oregon (Urban Soap)	<u>STATUS:</u> Ongoing FY 87	<u>CONTACT:</u> EPA Region X; Greg Lande	<u>CAS NO:</u> VARIOUS	<u>CHEMICAL:</u> VARIOUS	<u>PROJECT TYPE:</u>	<u>TITLE:</u> Ambient Air Monitoring in Portland, Oregon	<u>STATUS:</u> Ongoing FY 87	<u>CONTACT:</u> EPA Region X; Greg Lande	<u>CAS NO:</u> VARIOUS	<u>CHEMICAL:</u> VARIOUS	<u>SOURCE:</u> Source Assessment, Control Technology	<u>PROJECT TYPE:</u>

<u>CL-BIB-0299</u>	TITLE: Ambient Air Monitoring for PCBs in El Dorado, Arkansas STATUS: Ongoing FY 87 CONTACT: EPA Region VI; J. Mitchell; (214) 655-7208 CAS NO: 1336-36-3 CHEMICAL: PCBs SOURCE: Hazardous Waste Incinerators PROJECT TYPE: Ambient Monitoring	TITLE: Arylamine Adducts in Blood as Indicators of Exposure STATUS: Started 10/85; Complete 10/88 CONTACT: NIOSH/DBBS/ETB; K. Cheever (513) 533-8392 CAS NO: 101-14-4 CHEMICAL: 4,4' - METHYLENE BIS (2-CHLORANILINE) PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0300</u>	TITLE: Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient STATUS: Ongoing FY 87 CONTACT: OPP/RD/Special Review; J. Roeloff(202) 557-0064 CAS NO: 76-44-8 CHEMICAL: HEPTACHLOR PROJECT TYPE: Source Assessment, Indoor Air, Ambient Monitoring, Regulatory Development Guidance	TITLE: Development of Short Term Assays to Predict Dust-Induced Lung Disease STATUS: Pilot Study - Lit. Review 9/87 CONTACT: NIOSH/DBBS/TSB; J. Patrick Mustin(513) 533-8433 CAS NO: 1332-21-4, VARIOUS CHEMICAL: ASBESTOS DUST, COAL SLAG DUSTS, MATERIALS SUBSTITUTES, MANMADE MINERAL FIBERS PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0301</u>	TITLE: Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient STATUS: Ongoing FY 87 CONTACT: OPP/RD/Special Review; J. Roeloff(202) 557-0064 CAS NO: 309-00-2 CHEMICAL: ALDRIN PROJECT TYPE: Source Assessment, Indoor Air, Ambient Monitoring, Regulatory Development Guidance	TITLE: Evaluation of Mesothelioma Production by Asbestos Substitutes STATUS: Started 10/84; Complete 6/90 CONTACT: NIOSH/DBBS/TSB; Frank Platek (513) 533-8433 CAS NO: 1332-21-4, VARIOUS CHEMICAL: ASBESTOS, ASBESTOS SUBSTITUTES PROJECT TYPE: Toxicity Testing
<u>CL-BIB-0302</u>	TITLE: Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient STATUS: Ongoing FY 87 CONTACT: OPP/RD/Special Review; J. Roeloff(202) 557-0064 CAS NO: 57-74-9 CHEMICAL: CHLORDANE PROJECT TYPE: Source Assessment, Indoor Air, Ambient Monitoring, Regulatory Development Guidance	TITLE: Particulate and Tissue Analysis Service and Research STATUS: Started 10/82; Continuing CONTACT: NIOSH/DBBS/TSB; Frank Platek (513) 533-8433 CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Toxicity Testing, Source Sampling
<u>CL-BIB-0303</u>	TITLE: Cellular and Molecular Cardiac Toxicology STATUS: Started 10/86; Complete 9/89 CONTACT: NIOSH/DBBS/ETB; M. Torrasen (513) 533-8392 CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Toxicity Testing	TITLE: Pulmonary Response to Inhaled Fibrogenic Minerals STATUS: Started 10/86; Complete 9/89 CONTACT: NIOSH/DRDS/LIB; V. Valleythan (304) 291-4474 CAS NO: CL-MINFIB CHEMICAL: MINERAL FIBER SOURCE: Mining, construction PROJECT TYPE: Toxicity Testing

<u>CL-BIB-0309</u>	TITLE: Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis STATUS: Started 10/83; Complete 9/87 CONTACT: NIOSH/DROS/LIB; V. Castranova CAS NO: 7631-86-9 CHEMICAL: SILICA SOURCE: Mining, Construction PROJECT TYPE: Toxicity Testing	TITLE: Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey STATUS: Started 4/11/86; Complete 3/15/87 CONTACT: AEERL-RTP; M. Osborne CAS NO: 10043-92-2 CHEMICAL: RADON PROJECT TYPE: Control Technology, Indoor Air
<u>CL-BIB-0310</u>	TITLE: Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing STATUS: Started 1/5/87; Complete 6/5/87 CONTACT: AEERL-RTP; M. Osborne CAS NO: 10043-92-2 CHEMICAL: RADON PROJECT TYPE: Indoor Air, Control Technology, Source Sampling	TITLE: Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, N. J. STATUS: Started 12/8/86; Complete 1/19/87 CONTACT: AEERL-RTP; M. Osborne CAS NO: 10043-92-2 CHEMICAL: RADON PROJECT TYPE: Indoor Air, Control Technology
<u>CL-BIB-0311</u>	TITLE: Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure STATUS: Started 7/31/86; Complete 3/31/88 CONTACT: AEERL-RTP; M. Osborne CAS NO: 10043-92-2 CHEMICAL: RADON PROJECT TYPE: Indoor Air, Control Technology	TITLE: Ethylene Oxide Control Technology Development Program for Hospital Sterilizers - Phase II STATUS: Started 2/13/87; Complete 9/30/87 CONTACT: AEERL-RTP; C. Darvin CAS NO: 75-21-8 CHEMICAL: ETHYLENE OXIDE SOURCE: Hospital Sterilizers PROJECT TYPE: Control Technology
<u>CL-BIB-0312</u>	TITLE: Development and Demonstration of Indoor Radon Reduction Measures for Homes STATUS: Started 3/17/87; Complete 11/17/89 CONTACT: AEERL-RTP; D. Henschel CAS NO: 10043-92-2 CHEMICAL: RADON PROJECT TYPE: Indoor Air, Control Technology	TITLE: Investigation of Radon Entry into Houses and Effectiveness of Mitigation Techniques - Evaluation Phase STATUS: Started 8/8/86; Complete 9/30/88 CONTACT: AEERL-RTP; D. Sanchez CAS NO: 10043-92-2 CHEMICAL: RADON PROJECT TYPE: Indoor Air, Control Technology
<u>CL-BIB-0313</u>	TITLE: Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques STATUS: Started 6/6/86; Complete 12/31/87 CONTACT: AEERL-RTP; D. Sanchez CAS NO: 10043-92-2 CHEMICAL: RADON PROJECT TYPE: Source Assessment, Source Sampling, Control Technology, Indoor Air	TITLE: Development and Demonstration of Indoor Radon Reduction Measures for Homes STATUS: Started 9/30/86; Complete 5/30/89 CONTACT: AEERL-RTP; J. S. Ruppertsberger CAS NO: 10043-92-2 CHEMICAL: RADON PROJECT TYPE: Control Technology, Indoor Air, Source Sampling

<u>CL-BIB-0319</u>	TITLE: Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1 STATUS: Started 12/12/86; Complete 4/30/87 CONTACT: AEERL-RTP; N. Smith CAS NO.: 593-70-4, CL-CFC CHEMICAL: CHLOROFLUOROMETHANE, CHLOROFUOROCARBONS SOURCE: Foam Blowing PROJECT TYPE: Source Sampling, Regulatory Development Guidance	<u>CL-BIB-0324</u> TITLE: CFC Chemical Substitutes STATUS: Started 8/15/86; Complete 3/13/87 CONTACT: AEERL-RTP; N. Smith CAS NO.: CL-CFC, 593-70-4 CHEMICAL: CHLOROFUOROCARBONS, CHLOROFUOROMETHANE PROJECT TYPE: Control Technology
<u>CL-BIB-0320</u>	TITLE: Chemical-Specific Manuals for Accidental Releases and Hazard Identification Systems STATUS: Started 11/1/86; Complete 4/30/87 CONTACT: AEERL-RTP; T. K. Janes CAS NO.: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Emergency Response	<u>CL-BIB-0325</u> TITLE: Catalytic Wood Stove Field Performance and Emission Monitoring STATUS: Started 3/31/86; Complete 3/31/88 CONTACT: AEERL-RTP; R. McCrillis CAS NO.: CL-WOOD CHEMICAL: WOOD SMOKE, VARIOUS SOURCE: Wood Stoves PROJECT TYPE: Source Sampling, Emission Factor
<u>CL-BIB-0321</u>	TITLE: Air Toxic Accidental Release Prevention Reference Manual - Mitigation Technology STATUS: Started 1/1/87; Complete 7/30/87 CONTACT: AEERL-RTP; T. K. Janes CAS NO.: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Control Technology, Emergency Response	<u>CL-BIB-0326</u> TITLE: Chamber Studies Characterizing Emissions from Unvented Combustion Sources STATUS: Started 8/20/86; Complete 8/31/89 CONTACT: AEERL-RTP; J. White CAS NO.: C-IAP CHEMICAL: INDOOR AIR POLLUTANTS PROJECT TYPE: Source Assessment, Emission Factor, Indoor Air
<u>CL-BIB-0322</u>	TITLE: POHC and PIC Screening STATUS: Started 6/30/86; Complete 7/30/87 CONTACT: AEERL-RTP; L. D. Johnson CAS NO.: CL-HAZWAST CHEMICAL: HAZARDOUS WASTES PROJECT TYPE: Emission Factor	<u>CL-BIB-0328</u> TITLE: Toxics and VOC Research Program Priority Development STATUS: Started 9/29/86; Complete 2/28/87 CONTACT: AEERL-RTP; C. Darwin CAS NO.: CL-VOC CHEMICAL: HAZARDOUS AIR POLLUTANTS; ORGANIC COMPOUNDS PROJECT TYPE: Source Sampling, Emission Factor
<u>CL-BIB-0323</u>	TITLE: Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2 STATUS: Started 12/12/86; Complete 4/30/87 CONTACT: AEERL-RTP; D. L. Harmon CAS NO.: 593-70-4, CL-CFC CHEMICAL: CHLOROFLUOROMETHANE, CHLOROFUOROCARBONS SOURCE: Refrigerants PROJECT TYPE: Source Sampling, Regulatory Development Guidance	<u>CL-BIB-0329</u> TITLE: Determining Wood Stove Catalyst Emission Control Performance Degradation STATUS: Started 10/10/86; Complete 6/10/87 CONTACT: AEERL-RTP; R. McCrillis CAS NO.: CL-WOOD CHEMICAL: VARIOUS, WOOD SMOKE SOURCE: Wood Stoves PROJECT TYPE: Emission Factor, Control Technology

<u>CL-BIB-0330</u>	TITLE: Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions STATUS: Started 3/17/87; Complete 3/17/88 CONTACT: AEERL-RTP; R. McCrillis CAS NO: CL-WOOD CHEMICAL: WOOD SMOKE, VARIOUS SOURCE: Residential Wood Stoves PROJECT TYPE: Emission Factor, Control Technology	TITLE: VOC and HAP Control of Department of Defense Facilities STATUS: Started 2/9/87; Complete 9/30/87 CONTACT: AEERL-RTP; C. Darwin CAS NO: CL-VOC CHEMICAL: HAZARDOUS AIR POLLUTANTS, ORGANIC COMPOUNDS SOURCE: DOD Facilities PROJECT TYPE: Source Sampling, Control Technology
<u>CL-BIB-0331</u>	TITLE: Development of Ultraviolet Curing for Furniture Finishers STATUS: Started 8/20/86; Complete 9/21/88 CONTACT: AEERL-RTP; C. Darwin CAS NO: CL-VOC CHEMICAL: HAZARDOUS AIR POLLUTANTS, ORGANIC COMPOUNDS SOURCE: Furniture Manufacturing PROJECT TYPE: Control Technology	<u>CL-BIB-0337</u> TITLE: Vapor Phase Catalytic Oxidation of Mixed Volatile Organic Compounds STATUS: Started 6/20/85; Complete 6/26/88 CONTACT: AEERL-RTP; M. Kosisko CAS NO: CL-VOC CHEMICAL: VOLATILE ORGANIC COMPOUNDS PROJECT TYPE: Control Technology
<u>CL-BIB-0332</u>	TITLE: Evaluation of HAP Controls under Transient Conditions STATUS: Started 6/1/86; Complete 3/1/87 CONTACT: AEERL-RTP; J. Crum CAS NO: CL-VOC CHEMICAL: VOLATILE ORGANIC COMPOUNDS SOURCE: Source Sampling, Ambient Monitoring, Emission Factor PROJECT TYPE: Control Technology	<u>CL-BIB-0332</u> TITLE: Evaluation of HAP Controls under Transient Conditions STATUS: Started 6/1/86; Complete 3/1/87 CONTACT: AEERL-RTP; J. Crum CAS NO: CL-VOC CHEMICAL: VOLATILE ORGANIC COMPOUNDS SOURCE: Source Sampling, Ambient Monitoring, Emission Factor PROJECT TYPE: Control Technology
<u>CL-BIB-0333</u>	TITLE: Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant STATUS: Started 1/20/87; Complete 6/30/87 CONTACT: AEERL-RTP; S. Nolan CAS NO: VARIOUS CHEMICAL: HAZARDOUS AIR POLLUTANTS SOURCE: Wafer Board Manufacturing PROJECT TYPE: Source Assessment, Control Technology	<u>CL-BIB-0333</u> TITLE: Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant STATUS: Started 1/20/87; Complete 6/30/87 CONTACT: AEERL-RTP; S. Nolan CAS NO: VARIOUS CHEMICAL: HAZARDOUS AIR POLLUTANTS SOURCE: Wafer Board Manufacturing PROJECT TYPE: Source Assessment, Control Technology
<u>CL-BIB-0334</u>	TITLE: North West Wood Stove Study STATUS: Started 11/17/86; Complete 8/18/87 CONTACT: AEERL-RTP; R. McCrillis CAS NO: CL-WOOD CHEMICAL: VARIOUS, WOOD SMOKE SOURCE: Wood Stoves PROJECT TYPE: Emission Factor, Source Sampling	<u>CL-BIB-0334</u> TITLE: North West Wood Stove Study STATUS: Started 11/17/86; Complete 8/18/87 CONTACT: AEERL-RTP; R. McCrillis CAS NO: CL-WOOD CHEMICAL: VARIOUS, WOOD SMOKE SOURCE: Wood Stoves PROJECT TYPE: Emission Factor, Source Sampling

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SUBSTANCES AND ALLIED PRODUCTS (28) (continued)**Exposure to Butadiene in the Industrial Environment** ((CL-BIB-034))**Morbidity and Mortality Study of Workers Exposed to Nitroglycerin** ((CL-BIB-0247))**Phosgene Preliminary Source Assessment****CHLORDANE (57-74-9)****Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient****CHLORINE (7782-50-5)****Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act** ((CL-BIB-0037))**Source Test Methods for Ammonia and Chlorine****Health Assessment Document for Chlorine & Hydrogen Chloride, External Review****CHLOROETHANE (75-00-3)****Decision on Regulation of Ethyl Chloride Under the Clean Air Act** ((CL-BIB-0268))**CHLOROFUOROCARBONS (CL-CFC)****Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1****Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2****CFC Chemical Substitutes****CHLOROFLUOROMETHANE (593-70-4)****Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1****Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2****CFC Chemical Substitutes****CHLOROFORM (67-66-3)****Hazardous Organic NESHAP****CHROMIUM (7440-47-3)****Chromium NESHAP****CHROMIUM (7440-47-3) (continued)****Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion****Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes****Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI****Chromium Project for Industrial Cooling Towers****Health Assessment for Chromium, Update****CL-GARCIN (CARCINOGENS)****Integrated Air Cancer Project****In Vitro Tests for Workplace Carcinogens****Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data****CL-CFC (CHLOROFUOROCARBONS)****Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1****Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2****CFC Chemical Substitutes****CL-COE (COKE OVEN EMISSIONS)****Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP****CL-DIESEL (DIESEL FUEL EMISSIONS)****Occupational Lung Disease Associated with Exposure to Diesel Emissions****Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions****Mortality of Diesel Exposed Miners****Study of Lung Cancer Mortality Among Teamsters****CL-DIOXIN (DIOXINS)****Validate an Emission Test Method for Dioxins**

CL-DIOXIN (DIOXINS) (continued)

New York State Stack Sampling of Resource Recovery Plants	(CL-BIB-0146)	<u>CL-IAP (INDOOR AIR POLLUTANTS)</u> Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action (CL-BIB-0199)
Mortality of Dioxin Workers	(CL-BIB-0226)	Epidemiologic Environmental Study - Office Workers (CL-BIB-0211)
Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin	(CL-BIB-0236)	Indoor Air Quality Research (CL-BIB-0290)
Dioxin Analysis of Hospital Incinerator Ash	(CL-BIB-0292)	Chamber Studies Characterizing Emissions from Unvented Combustion Sources (CL-BIB-0326)
<u>CL-HAZMAT (HAZARDOUS WASTES)</u>		<u>CL-METAL (METALLIC COMPOUNDS)</u>
Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities	(CL-BIB-0030)	Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, Nickel From Coal and Oil Combustion (CL-BIB-0029)
List of Superfund Hazardous Waste Sites with Air Contamination Problems	(CL-BIB-0054)	New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)
Potential for Air Releases From CERCLA Sites	(CL-BIB-0055)	Neurotoxicity from Exposure to Heavy Metals (CL-BIB-0168)
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	(CL-BIB-0137)	<u>CL-MINIFIB (MINERAL FIBERS)</u> Development of Short Term Assays to Predict Dust-Induced Lung Disease (CL-BIB-0305)
Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility	(CL-BIB-0138)	Pulmonary Response to Inhaled Fibrogenic Minerals (CL-BIB-0308)
Field Assessment of Steam VOC Removal Efficiencies	(CL-BIB-0140)	<u>CL-ORGANIC (ORGANIC COMPOUNDS)</u> Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air (CL-BIB-0097)
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities	(CL-BIB-0141)	Atmospheric Measurements of Trace Hazardous Organic Chemicals (CL-BIB-0103)
Field Assessment of Fate of Organics in Aerated Treatment Systems	(CL-BIB-0142)	Evaluate the Contribution of Source Emissions to Cancer Risk (CL-BIB-0113)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-BIB-0143)	Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-BIB-0142)
Engineering Study: Standards Development for Hazardous Waste	(CL-BIB-0257)	Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action (CL-BIB-0199)
Development Ambient Methods for Hazardous Waste	(CL-BIB-0288)	Mortality Study of Workers Exposed to Chlorinated Naphthalenes (CL-BIB-0238)
Develop Source Methods for Hazardous Waste	(CL-BIB-0289)	Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-BIB-0258)
POHC and PIC Screening	(CL-BIB-0322)	<u>CL-PEST (PESTICIDES)</u> Final Report of the Pesticide Total Exposure Study (CL-BIB-0101)

CL-PEST (PESTICIDES) (continued)

<u>Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area</u>	(CL-BIB-0102)	CL-VOC (VOLATILE ORGANIC COMPOUNDS) (continued) Toxics and VOC Research Program Priority Development	(CL-BIB-0328)
<u>Pesticide Impact Study from Field and Slash Burning</u>	(CL-BIB-0159)	Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)
<u>Update of Completed Cohort Mortality Studies - NCI</u>	(CL-BIB-0227)	Evaluation of HAP Controls under Transient Conditions	(CL-BIB-0332)
<u>CL-PHTH (PHTHALATES)</u>		VOC and HAP Control of Department of Defense facilities	(CL-BIB-0335)
<u>Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters</u>	(CL-BIB-0076)	Vapor Phase Catalytic Oxidation of Mixed Volatile Organic Compounds	(CL-BIB-0337)
<u>CL-PM (PARTICULATE MATTER)</u>		<u>CL-WELD (WELDING FUMES)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-BIB-0202)
<u>Pesticide Impact Study from Field and Slash Burning</u>	(CL-BIB-0159)	Prospective Study of Welders of Mild Steel	(CL-BIB-0212)
<u>Occupational Exposure During Sugar Cane Harvesting Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (PCM)</u>	(CL-BIB-0250)	Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-BIB-0240)
<u>Analytical Methods Development for Toxic Substances</u>	(CL-BIB-0237)	<u>CL-WOOD (WOOD SMOKE)</u> Integrated Air Cancer Project: Wood Stove Operating Profiles	(CL-BIB-0128)
<u>CL-PCM (POLYCYCLIC ORGANIC MATTER)</u>		Analytical Methods Development for Toxic Substances	(CL-BIB-0287)
<u>Pesticide Impact Study from Field and Slash Burning</u>	(CL-BIB-0159)	Catalytic Wood Stove Field Performance and Emission Monitoring	(CL-BIB-0325)
<u>Occupational Exposure During Sugar Cane Harvesting Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (PCM)</u>	(CL-BIB-0250)	Determining Wood Stove Catalyst Emission Control Performance Degradation	(CL-BIB-0329)
<u>CL-RESIN (RESINS)</u>		Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions	(CL-BIB-0330)
<u>Assessment of Potential Emissions from Wafer Board Manufacturing Plants</u>	(CL-BIB-0258)	North West Wood Stove Study	(CL-BIB-0334)
<u>CL-SOLVENT (SOLVENTS)</u>		<u>COKE OVEN EMISSIONS (CL-COE)</u> Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP	(CL-BIB-0012)
<u>Behavioral Teratology of Alcohol Solvents</u>	(CL-BIB-0165)	Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis	(CL-BIB-0309)
<u>Neurotoxicity of Aliphatic Carbon Solvents</u>	(CL-BIB-0166)		
<u>CL-VOC (VOLATILE ORGANIC COMPOUNDS)</u>			
<u>Organic Solvent Cleaning NESHAP</u>			
<u>Update of a Data Base on VOC in the Atmosphere</u>	(CL-BIB-0106)		
<u>Destruction of VOC/HAP Emissions via Catalytic Incineration</u>	(CL-BIB-0116)		
<u>Field Assessment of Steam VOC Removal Efficiencies</u>	(CL-BIB-0140)		
<u>Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water</u>	(CL-BIB-0143)		
<u>Toxics Air Monitoring Systems (TAMS)</u>	(CL-BIB-0286)	<u>CONSTRUCTION SAND AND GRAVEL (1442)</u>	

CONTROL TECHNOLOGY DOCUMENT (CT)**CONTROL TECHNOLOGY DOCUMENT (CT) (continued)**

<u>Study to Define and Determine Mitigation Methods for Air Pollution in Puget Sound</u> <u>Ambient Air Monitoring in Portland, Oregon (Urban Soup)</u>	(CL-BIB-0297) (CL-BIB-0298)	Development of Ultraviolet Curing for Furniture Finishers Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant	(CL-BIB-0331) (CL-BIB-0333)
<u>Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing</u>	(CL-BIB-0310)	VOC and HAP Control of Department of Defense Facilities	(CL-BIB-0335)
<u>Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure</u>	(CL-BIB-0311)	Vapor Phase Catalytic Oxidation of Mixed Volatile Organic Compounds	(CL-BIB-0337)
<u>Development and Demonstration of Indoor Radon Reduction Measures for Homes</u>	(CL-BIB-0312)	<u>CROP SERVICES (072)</u> <u>A Study of Worker Exposure to Grain Fumigants</u>	(CL-BIB-0249)
<u>Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques</u>	(CL-BIB-0313)	Occupational Exposure During Sugar Cane Harvesting	(CL-BIB-0250)
<u>Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey</u>	(CL-BIB-0314)	<u>CURENE (101-14-4)</u> <u>Investigation of Workers Exposed to MCA</u>	(CL-BIB-0225)
<u>Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, N. J.</u>	(CL-BIB-0315)	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-BIB-0232)
<u>Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II</u>	(CL-BIB-0316)	Arylamine Adducts in Blood as Indicators of Exposure	(CL-BIB-0304)
<u>Investigation of Radon Entry into Houses and Effectiveness of Mitigation Techniques - Evaluation Phase</u>	(CL-BIB-0317)	<u>DIBENZOFURAN (132-64-9)</u> Health Assessment Document for dibenzofurans	(CL-BIB-0064)
<u>Development and Demonstration of Indoor Radon Reduction Measures for Homes</u>	(CL-BIB-0318)	<u>DIESEL FUEL EMISSIONS (CL-DIESEL)</u> Occupational Lung Disease Associated with Exposure to Diesel Emissions	(CL-BIB-0193)
<u>Air Toxic Accidental Release Prevention Reference Manual - Mitigation Technology CFC Chemical Substitutes</u>	(CL-BIB-0321)	Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions	(CL-BIB-0201)
<u>Determining Wood Stove Catalyst Emission Control Performance Degradation</u>	(CL-BIB-0324)	Mortality of Diesel Exposed Miners	(CL-BIB-0213)
<u>Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions</u>	(CL-BIB-0330)	Study of Lung Cancer Mortality Among Teamsters	(CL-BIB-0242)
		<u>DIMETHYLLAMINE (124-40-3)</u> Decision on Regulation of Dimethylamine Under the Clean Air Act	(CL-BIB-0269)
		<u>DIMETHYLFORMAMIDE N,N- (68-12-2)</u> Dimethylformamide- NTP Chemical Manager	(CL-BIB-0186)
		<u>DIOXINS (CL-DIOXIN)</u> Validate an Emission Test Method for Dioxins	(CL-BIB-0082)

DIOXINS (CL-DIOXIN) (continued)	ELECTRIC GAS, AND SANITARY SERVICES (49) (continued)	
New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)	Rhode Island Toxics Integration Project - Evaluation of Emission from Sewage Treatment Plants (CL-BIB-0145)	
Mortality of Dioxin Workers (CL-BIB-0226)	New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)	
Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin (CL-BIB-0236)	Municipal Waste Combustion Study (CL-BIB-0266)	
Dioxin Analysis of Hospital Incinerator Ash (CL-BIB-0292)	Dioxin Analysis of Hospital Incinerator Ash (CL-BIB-0292)	
DISINFECTING AND EXTERMINATING (7342) Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)	The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility (CL-BIB-0293)	
DISPERSION MODELING (DM) Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data (CL-BIB-0294)	Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF (CL-BIB-0295)	
ELECTRIC GAS, AND SANITARY SERVICES (49) Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities (CL-BIB-0030)	Ambient Air Monitoring for PCBs in El Dorado, Arkansas (CL-BIB-0299)	
EMISSION FACTOR (EF) List of Superfund Hazardous Waste Sites With Air Contamination Problems (CL-BIB-0054)	Locating and Estimating Air Emissions From Sources of Destruction of VOC/HAP Emissions via Catalytic Incineration (CL-BIB-0023)	
Potential for Air Releases From CERCLA Sites (CL-BIB-0055)	Emission Factors for Polychlorinated Biphenyls (PCB) (CL-BIB-0116)	
Evaluate the Contribution of Source Emissions to Cancer Risk (CL-BIB-0113)	Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)	
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System (CL-BIB-0137)	Locating and Estimating Air Emissions from Sources of Benzene (CL-BIB-0262)	
Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility (CL-BIB-0138)	Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM) (CL-BIB-0263)	
Field Assessment of Steam VOC Removal Efficiencies (CL-BIB-0140)	POHC and PIC Screening (CL-BIB-0322)	
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities (CL-BIB-0141)	Catalytic Wood Stove Field Performance and Emission Monitoring (CL-BIB-0325)	
Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-BIB-0142)	Chamber Studies Characterizing Emissions from Unvented Combustion Sources (CL-BIB-0326)	
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water (CL-BIB-0143)	Toxics and VOC Research Program Priority Development (CL-BIB-0328)	
	Determining Wood Stove Catalyst Emission Control Performance Degradation (CL-BIB-0329)	

EMISSION FACTOR (EF) (continued)**ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)**

Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions	Decision on Regulation of Gasoline Vapors Under the Clean Air Act (CL-BIB-0041)
Evaluation of HAP Controls under Transient Conditions	Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act (CL-BIB-0042)
North West Wood Stove Study	Decision on Regulation of Mineral Fibers Under the Clean Air Act (CL-BIB-0043)
ENVIRONMENTAL PROTECTION AGENCY (EPA) Cadmium NESHAP	Decision on Regulation of Naphthalene Under the Clean Air Act (CL-BIB-0044)
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP	Decision on Regulation of Phosgene Under the Clean Air Act (CL-BIB-0045)
Organic Solvent Cleaning NESHAP	Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act (CL-BIB-0048)
Asbestos NESHAP Revision	Decision on Regulation of Styrene Under the Clean Air Act (CL-BIB-0049)
Chromium NESHAP	Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act (CL-BIB-0050)
Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB)	Decision on Regulation of Methyl Isocyanate Under the Clean Air Act (CL-BIB-0051)
EPA-State Pilot Project For the Control of Acrylonitrile Emissions	Decision on Regulation of Xylene Under the Clean Air Act (CL-BIB-0052)
Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act (CL-BIB-0053)
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	List of Superfund Hazardous Waste Sites with Air Contamination Problems (CL-BIB-0054)
Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities	Potential for Air Releases From CERCLA Sites (CL-BIB-0055)
Decision on Regulation of Acetaldehyde Under The Clean Air Act	Health Assessment Document for Beryllium, External Review (CL-BIB-0057)
Decision on Regulation of Acrolein Under the Clean Air Act	Health Assessment Document for Acrolein (CL-BIB-0059)
Decision on Regulation of Ammonia Under the Clean Air Act	Health Assessment Document for Acetaldehyde, External Review (CL-BIB-0061)
Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act	Health Assessment Document for Hydrogen Sulfide, External Review (CL-BIB-0062)
Decision on Regulation of Formaldehyde Under the Clean Air Act	Health Assessment Document for Formaldehyde Under the Clean Air Act (CL-BIB-0040)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Health Assessment Document for Phosgene, External Review	Harvard University Cooperative Agreement - Monographs On Research and Policy Issues Including Sensitive Individuals, Biological Screening Tests, Air Carcinogen Policy, and Regulation of Toxic and Nuclear Waste	(CL-BIB-0063)	(CL-BIB-0107)
Health Assessment Document for Dibenzofurans		(CL-BIB-0064)	
Evaluation of Methods to Estimate Absorbed Doses of Inhaled Oxidants	Determine Pulmonary Dose-Response Relationships	(CL-BIB-0069)	(CL-BIB-0108)
Risk Analysis of Existing Data on Triethyl Phosphate	Determine Neurotoxic Dose-Response Relationships	(CL-BIB-0075)	(CL-BIB-0109)
Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters	Characterize Genotoxic Dose-Response Relationships	(CL-BIB-0076)	(CL-BIB-0110)
Information Gathering and Risk Analysis of Existing Data on Phenylethanol	Identify and Evaluate Toxic Components of Air Pollution	(CL-BIB-0077)	(CL-BIB-0111)
Information Gathering and Risk Analysis of Existing Data on Phenylethanol Acetate	Determine the Significance of Neurotoxic Response Indicators	(CL-BIB-0078)	(CL-BIB-0112)
Risk Analysis of Existing Data on Phthalimide	Evaluate the Contribution of Source Emissions to Cancer Risk	(CL-BIB-0079)	(CL-BIB-0113)
Develop Sampling Methods for Speciated Nickel	Develop Methods to Identify Reproductive Toxicity of Air Pollutants	(CL-BIB-0081)	(CL-BIB-0114)
Validate an Emission Test Method for Dioxins	Integrated Air Cancer Project	(CL-BIB-0082)	(CL-BIB-0115)
Source Test Methods for Ammonia and Chlorine	Destruction of VOC/HAP Emissions via Catalytic Incineration	(CL-BIB-0084)	(CL-BIB-0116)
Report on Development of New Sampling and Analysis Techniques for Ambient Hazardous Air Pollutants (HAP)	Integrated Air Cancer Project: Wood Stove Operating Profiles	(CL-BIB-0087)	(CL-BIB-0120)
Model of Human Exposures Inside Vehicles on Highways	Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0096)	
Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air	Demonstration of Low-Cost Reduction of Indoor Radon From Soil	(CL-BIB-0097)	(CL-BIB-0129)
Final Report of the Pesticide Total Exposure Study	C02 Laser Photoacoustic Toxic Vapor Monitoring	(CL-BIB-0101)	(CL-BIB-0132)
Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area	Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	(CL-BIB-0102)	(CL-BIB-0137)
Atmospheric Measurements of Trace Hazardous Organic Chemicals		(CL-BIB-0103)	
Hazardous Air Pollutants in the Urban Environment	Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility	(CL-BIB-0104)	(CL-BIB-0138)
Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants	Field Assessment of Steam VOC Removal Efficiencies	(CL-BIB-0105)	(CL-BIB-0140)
Update of a Data Base on VOC in the Atmosphere		(CL-BIB-0106)	

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities (CL-BIB-0141)	Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions (CL-BIB-0259)
Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-BIB-0142)	Chromium Project for Industrial Cooling Towers (CL-BIB-0260)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water (CL-BIB-0143)	Hazardous Organic NESHAP (CL-BIB-0261)
Rhode Island Toxics Integration Project - Evaluation of Emission from Sewage Treatment Plants (CL-BIB-0145)	Locating and Estimating Air Emissions from Sources of Benzene (CL-BIB-0262)
New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)	Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM) (CL-BIB-0263)
Analysis of Acid Precipitation Samples Collected in West Virginia, Delaware, and Maryland (CL-BIB-0147)	Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act (CL-BIB-0264)
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes (CL-BIB-0148)	Municipal Waste Combustion Study (CL-BIB-0266)
Gulf Coast Community Exposure Study (CL-BIB-0151)	Decision on Regulation of Phosphorus Under the Clean Air Act (CL-BIB-0267)
2-Phase Project to Identify Metro Area Point Sources and Develop an Emissions Inventory (CL-BIB-0152)	Decision on Regulation of Ethyl Chloride Under the Clean Air Act (CL-BIB-0268)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)	Decision on Regulation of Dimethylamine Under the Clean Air Act (CL-BIB-0269)
South Coast Exposure Study (CL-BIB-0155)	Decision on Regulation of Selenium and its Compounds Under the Clean Air Act (CL-BIB-0270)
Source Assessment Manual - Development of Ambient Guidelines for Non-Cancer Effects (CL-BIB-0156)	Decision on Regulation of Phthalic Anhydride Under the Clean Air Act (CL-BIB-0271)
Contra Costa Exposure Study (CL-BIB-0157)	Decision on Regulation of Sodium Hydroxide Under the Clean Air Act (CL-BIB-0272)
Pesticide Impact Study from Field and Slash Burning (CL-BIB-0159)	Decision on Regulation of Camphochlor Under the Clean Air Act (CL-BIB-0273)
Acrolein Preliminary Source Assessment (CL-BIB-0254)	Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act (CL-BIB-0274)
Phosgene Preliminary Source Assessment (CL-BIB-0255)	Decision on Regulation of Methyl Methacrylate Under the Clean Air Act (CL-BIB-0275)
Acetaldehyde Preliminary Source Assessment (CL-BIB-0256)	Decision on Regulation of Methyl Methacrylate Under the Clean Air Act (CL-BIB-0276)
Engineering Study: Standards Development for Hazardous Waste (CL-BIB-0257)	Decision on Regulation of Methyl Methacrylate Under the Clean Air Act (CL-BIB-0277)
Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-BIB-0258)	

<u>ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)</u>	<u>ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)</u>	
Decision on Regulation of Maleic Anhydride Under the Clean Air Act	(CL-BIB-0276)	Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data (CL-BIB-0294)
Decision on Regulation of Mercuric Chloride Under the Clean Air Act	(CL-BIB-0277)	Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF (CL-BIB-0295)
Decision on Regulation of Methanol Under the Clean Air Act	(CL-BIB-0278)	Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho (CL-BIB-0296)
Health Assessment for Chromium, Update	(CL-BIB-0279)	Study to Define and Determine Mitigation Methods for Air Pollution in Puget Sound (CL-BIB-0297)
Health Assessment Document for Chlorine & Hydrogen Chloride, External Review	(CL-BIB-0280)	Ambient Air Monitoring in Portland, Oregon (Urban Soup) (CL-BIB-0298)
Development of Methods to Interpret Metabolism Data	(CL-BIB-0281)	Ambient Air Monitoring for PCBs in El Dorado, Arkansas (CL-BIB-0299)
Health Assessment for Trichloroethylene-Cancer Update	(CL-BIB-0282)	Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient (CL-BIB-0300)
Chemical Hazard Information Profile for Methyl Carbamate	(CL-BIB-0283)	Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient (CL-BIB-0301)
Chemical Hazard Information Profile for Benzotriazol-Based UV Light	(CL-BIB-0284)	Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient (CL-BIB-0302)
Toxics Air Monitoring Systems (TAMS)	(CL-BIB-0285)	Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing (CL-BIB-0310)
Analytical Methods Development for Toxic Substances	(CL-BIB-0286)	Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure (CL-BIB-0311)
Development Ambient Methods for Hazardous Waste	(CL-BIB-0287)	Development and Demonstration of Indoor Radon Reduction Measures for Homes (CL-BIB-0312)
Develop Source Methods for Hazardous Waste	(CL-BIB-0288)	Indoor Air Quality Research (CL-BIB-0289)
Monitoring Human Exposure to HAPS	(CL-BIB-0290)	Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques (CL-BIB-0313)
Dioxin Analysis of Hospital Incinerator Ash	(CL-BIB-0291)	Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey (CL-BIB-0314)
The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	(CL-BIB-0292)	(CL-BIB-0293)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, N. J.	(CL-BIB-0315)	Evaluation of HAP Controls under Transient Conditions	(CL-BIB-0332)
Ethylene Oxide Control Technology Development Program for Hospital Sterilizers - Phase II	(CL-BIB-0316)	Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant	(CL-BIB-0333)
Investigation of Radon Entry into Houses and Effectiveness of Mitigation Techniques - Evaluation Phase	(CL-BIB-0317)	North West Wood Stove Study	(CL-BIB-0334)
Development and Demonstration of Indoor Radon Reduction Measures for Homes	(CL-BIB-0318)	VOC and HAP Control of Department of Defense Facilities	(CL-BIB-0335)
Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1	(CL-BIB-0319)	Vapor Phase Catalytic Oxidation of Mixed Volatile Organic Compounds	(CL-BIB-0337)
Chemical-Specific Manuals for Accidental Releases and Hazard Identification Systems	(CL-BIB-0320)	<u>EPA (ENVIRONMENTAL PROTECTION AGENCY)</u> See titles under ENVIRONMENTAL PROTECTION AGENCY	
Air Toxic Accidental Release Prevention Reference Manual - Mitigation Technology POMIC and PIC Screening	(CL-BIB-0321)	<u>EPIDEMIOLOGY STUDY (ES)</u> Methodologies for Worksite Neurotoxicity	(CL-BIB-0169)
Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2 CFC Chemical Substitutes	(CL-BIB-0322)	Vyssinosis Prevention	(CL-BIB-0192)
Catalytic Wood Stove Field Performance and Emission Monitoring	(CL-BIB-0323)	Occupational Lung Disease Associated with Exposure to Diesel Emissions	(CL-BIB-0193)
Chamber Studies Characterizing Emissions from Unvented Combustion Sources	(CL-BIB-0324)	National Occupational Health Survey of Mining Emissions	(CL-BIB-0198)
Toxics and VOC Research Program Priority Development	(CL-BIB-0325)	Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions	(CL-BIB-0201)
Determining Wood Stove Catalyst Emission Control Performance Degradation	(CL-BIB-0326)	Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-BIB-0202)
Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions	(CL-BIB-0328)	Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners	(CL-BIB-0205)
Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0329)	National Coal Study and Coal Worker Surveillance	(CL-BIB-0206)
		Study of Workers in the Dusty Trades in North Carolina - NC1	(CL-BIB-0207)
		Health Experience of Industrial Sand Workers	(CL-BIB-0208)
		Effects of Formaldehyde on the Respiratory System	(CL-BIB-0210)
		Epidemiologic Environmental Study - Office Workers	(CL-BIB-0211)
		Prospective Study of Welders of Mild Steel	(CL-BIB-0212)
		Mortality of Diesel Exposed Miners	(CL-BIB-0213)

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Endotoxins in Cotton	(CL-BIB-0214)	Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills	(CL-BIB-0241)
Comparative Research in Analytical Pathology	(CL-BIB-0216)	Study of Lung Cancer Mortality Among Teamsters	(CL-BIB-0242)
Mortality Analysis of United Auto Workers Cohorts	(CL-BIB-0219)	Cohort Mortality Study of Toluene Diisocyanate Exposed Workers	(CL-BIB-0243)
Mortality Study of Chemical Plants in Kanawha Valley, West Virginia^a	(CL-BIB-0221)	Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI	(CL-BIB-0244)
Mortality and Industrial Hygiene Study of Workers Exposed to Toluene	(CL-BIB-0222)	Mortality of Sulfuric Acid Exposed Workers	(CL-BIB-0246)
Mortality and Industrial Hygiene Study of Formaldehyde	(CL-BIB-0223)	Morbidity and Mortality Study of Workers Exposed to Nitroglycerin	(CL-BIB-0247)
Ethylene Oxide Mortality Study - NCI	(CL-BIB-0224)	A Study of Worker Exposure to Grain Fumigants	(CL-BIB-0249)
Investigation of Workers Exposed to MOCA	(CL-BIB-0225)	Access to National Occupational Hazard Survey Data Base Profile Development	(CL-BIB-0252)
Mortality of Dioxin Workers	(CL-BIB-0226)	Surveillance Cooperative Agreements Between NIOSH and States	(CL-BIB-0253)
Update of Completed Cohort Mortality Studies - NCI	(CL-BIB-0227)	<u>ETHYLENE DICHLORIDE (107-06-2)</u>	(CL-BIB-0261)
Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI	(CL-BIB-0228)	<u>ETHYLENE OXIDE (75-21-8)</u>	(CL-BIB-0153)
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Medical, Biometric and Industrial Hygiene Study of Emerging Problems	(CL-BIB-0230)	Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-BIB-0190)
Health Hazard Evaluations and Technical Assistance	(CL-BIB-0231)	Mortality Study of Chemical Plants in Kanawha Valley, West Virginia	(CL-BIB-0221)
Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-BIB-0232)	Ethylene Oxide Mortality Study - NCI	(CL-BIB-0224)
Cohort Mortality Study of Antimony Smelter Workers	(CL-BIB-0233)	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-BIB-0232)
Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin	(CL-BIB-0236)	Hazardous Organic NESHAP	(CL-BIB-0261)
Mortality Study of Workers Exposed to Chlorinated Naphthalenes	(CL-BIB-0238)	Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II	(CL-BIB-0316)
Causes of Mortality Among Workers Exposed to Methyleneianiline (MDA)	(CL-BIB-0239)	<u>ETHYLHEXYLPHENYLATE, BIS,2-(117-81-7)</u>	
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-BIB-0240)	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-BIB-0232)

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Final Report of the Pesticide Total Exposure Study	Final Report of the Pesticide Total Exposure Study (CL-BIB-0101)	<u>Effects of Formaldehyde on the Respiratory System</u> (CL-BIB-0210)
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List of Superfund Hazardous Waste Sites with Air Contamination Problems	Health Assessment Document for Phosgene, External Review (CL-BIB-0063)
Potential for Air Releases From CERCLA Sites	Health Assessment Document for Dibenzofurans (CL-BIB-0064)
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	Source Assessment Manual - Development of Ambient Guidelines for Non-Cancer Effects (CL-BIB-0156)
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Field Assessment of Fate of Organics in Aerated Treatment Systems	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-BIB-0232)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	Health Assessment for Chromium, Update (CL-BIB-0279)
Engineering Study: Standards Development for Hazardous Waste	Health Assessment Document for Chlorine & Hydrogen Chloride, External Review (CL-BIB-0280)
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<u>HYDROGEN CYANIDE</u> (74-90-8)	Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, N. J. (CL-BIB-0315)
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<u>HYDROGEN FLUORIDE</u> (7664-39-3)	Development and Demonstration of Indoor Radon Reduction Measures for Homes (CL-BIB-0318)
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<u>IRON OXIDE FUME (1309-37-1)</u>	<u>METHYL CARBAMATE (598-55-0)</u>
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Occupational Lung Disease Associated with Exposure to Diesel Emissions	Mortality and Industrial Hygiene Study of Formaldehyde (CL-BIB-0223)
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Morbidity and Industrial Hygiene Study Of Mild Steel Welders	Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI (CL-BIB-0228)
Assessment of Coal Workers Pneumococcosis and Respiratory Disease in Surface Miners	Beryllium Retrospective Cohort Investigation - NCI (CL-BIB-0229)
National Coal Study and Coal Worker Surveillance	Medical, Biometric and Industrial Hygiene Study of Emerging Problems (CL-BIB-0230)
Study of Workers in the Dusty Trades in North Carolina - NCI	Health Hazard Evaluations and Technical Assistance (CL-BIB-0231)
Health Experience of Industrial Sand Workers	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-BIB-0232)
Effects of Formaldehyde on the Respiratory System	Cohort Mortality Study of Antimony Smelter Workers (CL-BIB-0233)
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Prospective Study of Welders of Mild Steel	Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin (CL-BIB-0236)

NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH (NIOSH) (continued)

Mortality Study of Workers Exposed to Chlorinated Naphthalenes (CL-BIB-0238)	<u>NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH (NIOSH) (continued)</u> Pulmonary Response to Inhaled Fibrogenic Minerals (CL-BIB-0308)
Causes of Mortality Among Workers Exposed to Methyleneaniline (CL-BIB-0239)	Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis (CL-BIB-0309)
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (NDA) (CL-BIB-0240)	<u>NICKEL POWDER (7440-02-0)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-BIB-0029)
Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-BIB-0241)	Develop Sampling Methods for Speciated Nickel (CL-BIB-0081)
Study of Lung Cancer Mortality Among Teamsters (CL-BIB-0242)	NIOSH (NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH) See titles under NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH
Cohort Mortality Study of Toluene Diisocyanate Exposed Workers (CL-BIB-0243)	<u>NITROGLYCERINE (55-63-0)</u> Morbidity and Mortality Study of Workers Exposed to Nitroglycerin (CL-BIB-0247)
Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-BIB-0244)	<u>NONMETALLIC MINERALS, EXCEPT FUELS (14)</u> National Occupational Health Survey of Mining (CL-BIB-0198)
Mortality of Sulfuric Acid Exposed Workers (CL-BIB-0245)	Health Experience of Industrial Sand Workers (CL-BIB-0208)
Morbidity and Mortality Study of Workers Exposed to Nitroglycerin (CL-BIB-0247)	Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)
A Study of Worker Exposure to Grain Fumigants (CL-BIB-0249)	Alveolar Type II Cells; Effect of Silica (CL-BIB-0218)
Occupational Exposure During Sugar Cane Harvesting (CL-BIB-0250)	Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis (CL-BIB-0309)
Access to National Occupational Hazard Survey Data Base Profile (CL-BIB-0252)	<u>OFFICE FURNITURE (252)</u> Development of Ultraviolet Curing for Furniture Finishers (CL-BIB-0331)
Surveillance Cooperative Agreements Between NIOSH and States (CL-BIB-0253)	<u>OIL AND GAS EXTRACTION (13)</u> National Occupational Health Survey of Mining (CL-BIB-0198)
Cellular and Molecular Cardiac Toxicology Arylamine Adducts in Blood as Indicators of Exposure (CL-BIB-0304)	Mortality of Diesel Exposed Miners (CL-BIB-0213)
Development of Short Term Assays to Predict Dust-Induced Lung Disease (CL-BIB-0305)	<u>ORGANIC COMPOUNDS (CL-ORGANIC)</u> Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air (CL-BIB-0097)
Evaluation of Mesothelioma Production by Asbestos Substitutes (CL-BIB-0306)	Atmospheric Measurements of Trace Hazardous Organic Chemicals (CL-BIB-0103)
Particulate and Tissue Analysis Service and Research (CL-BIB-0307)	Evaluate the Contribution of Source Emissions to Cancer Risk (CL-BIB-0113)

ORGANIC COMPOUNDS (CCL-ORGANIC) (continued)

Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-BIB-0142)

PHENETHYL ALCOHOL (60-12-8)
Information Gathering and Risk Analysis of Existing Data on
Phenylethanol (CL-BIB-0077)

Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action (CL-BIB-0199)

PHOSGENE (75-44-5)
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Mortality Study of Workers Exposed to Chlorinated Naphthalenes (CL-BIB-0238)

Health Assessment Document for Phosgene, External Review (CL-BIB-0063)

Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-BIB-0258)

Phosgene Preliminary Source Assessment (CL-BIB-0255)

PAPER AND ALLIED PRODUCTS (26)
Assessment of Potential Emissions from Wafer Board Manufacturing Plants

PHOSPHOROUS (YELLOW) (7723-14-0)
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PAPERBOARD MILLS (263)
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PHTHALATES (CL-PHTH)
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PAPERBOARD MILLS (2631)
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PHTHALIC ACID, DIMETHOXYETHYL ESTER (117-82-8)
Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters (CL-BIB-0076)

PARTICULATE MATTER (CL-PM)
Pesticide Impact Study from Field and Slash Burning (CL-BIB-0159)

PHTHALIC ANHYDRIDE (85-44-9)
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Analytical Methods Development for Toxic Substances (CL-BIB-0287)

PHTHALIMIDE (85-41-6)
Risk Analysis of Existing Data on Phthalimide (CL-BIB-0079)

PENTACHLOROPHENOL (87-86-5)
Mortality of Dioxin Workers (CL-BIB-0226)

PIPERONYL (1893-33-0)
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POLYCHLORINATED BIPHENYLS (1336-36-3)
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PESTICIDES (CCL-PEST)
Final Report of the Pesticide Total Exposure Study (CL-BIB-0101)

New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)

Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area (CL-BIB-0102)

Update of Completed Cohort Mortality Studies - NCI (CL-BIB-0227)

Pesticide Impact Study from Field and Slash Burning (CL-BIB-0159)

POLYCYCLIC ORGANIC MATTER (CL-POM)
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Update of Completed Cohort Mortality Studies - NCI (CL-BIB-0227)

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Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-BIB-0028)

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POLYCYCLIC ORGANIC MATTER (CL-POM) (continued)
Locating and Estimating Air Emissions from
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PRE-REGULATORY ASSESSMENT (PRA)	Decision on Regulation of Acetaldehyde Under the Clean Air Act (CL-BIB-0034)	Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act (CL-BIB-0053)
		Engineering Study: Standards Development for Hazardous Waste (CL-BIB-0257)
	Decision on Regulation of Acrolein Under the Clean Air Act (CL-BIB-0035)	Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act (CL-BIB-0264)
	Decision on Regulation of Ammonia Under the Clean Air Act (CL-BIB-0036)	Decision on Regulation of Propylene Under the Clean Air Act (CL-BIB-0265)
	Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act (CL-BIB-0037)	Municipal Waste Combustion Study (CL-BIB-0266)
	Decision on Regulation of Formaldehyde Under the Clean Air Act (CL-BIB-0040)	Decision on Regulation of Phosphorus Under the Clean Air Act (CL-BIB-0267)
	Decision on Regulation of Gasoline Vapors Under the Clean Air Act (CL-BIB-0041)	Decision on Regulation of Ethyl Chloride Under the Clean Air Act (CL-BIB-0268)
	Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act (CL-BIB-0042)	Decision on Regulation of Dimethylamine Under the Clean Air Act (CL-BIB-0269)
	Decision on Regulation of Mineral Fibers Under the Clean Air Act (CL-BIB-0043)	Decision on Regulation of Selenium and its Compounds Under the Clean Air Act (CL-BIB-0270)
	Decision on Regulation of Naphthalene Under the Clean Air Act (CL-BIB-0044)	Decision on Regulation of Phthalic Anhydride Under the Clean Air Act (CL-BIB-0271)
	Decision on Regulation of Phosgene Under the Clean Air Act (CL-BIB-0046)	Decision on Regulation of Sodium Hydroxide Under the Clean Air Act (CL-BIB-0272)
	Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act (CL-BIB-0048)	Decision on Regulation of Campophochlor Under the Clean Air Act (CL-BIB-0273)
	Decision on Regulation of Styrene Under the Clean Air Act (CL-BIB-0049)	Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act (CL-BIB-0274)
	Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act (CL-BIB-0050)	Decision on Regulation of Methyl Methacrylate Under the Clean Air Act (CL-BIB-0275)
	Decision on Regulation of Methyl Isocyanate Under the Clean Air Act (CL-BIB-0051)	Decision on Regulation of Maleic Anhydride Under the Clean Air Act (CL-BIB-0276)
	Decision on Regulation of Xylene Under the Clean Air Act (CL-BIB-0052)	Decision on Regulation of Mercuric Chloride Under the Clean Air Act (CL-BIB-0277)
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Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-BIB-0240)
Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills	(CL-BIB-0241)
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<u>PROPYLENE (115-07-1)</u>	
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RADON (10043-92-2)	
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Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure	(CL-BIB-0311)
Development and Demonstration of Indoor Radon Reduction Measures for Homes	(CL-BIB-0312)
Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques	(CL-BIB-0313)
Radon Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey	(CL-BIB-0314)
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<u>REFUSE SYSTEMS (4953)</u>	
Exposure/Risk Assessment on Air Emissions from Treatment, Storage and Disposal Facilities	(CL-BIB-0030)
List of Superfund Hazardous Waste Sites with Air Contamination Problems	(CL-BIB-0054)
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Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	(CL-BIB-0137)
Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility	(CL-BIB-0138)
Field Assessment of Steam VOC Removal Efficiencies	(CL-BIB-0140)
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities	(CL-BIB-0141)
Field Assessment of Fate of Organics in Aerated Treatment Systems	(CL-BIB-0142)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-BIB-0143)
New York State Stack Sampling of Resource Recovery Plants	(CL-BIB-0146)
Municipal Waste Combustion Study	(CL-BIB-0266)
Dioxin Analysis of Hospital Incinerator Ash	(CL-BIB-0292)

<u>REFUSE SYSTEMS</u> (4953) (continued)	<u>RISK ASSESSMENT (RA)</u> (continued)
Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF	Information Gathering and Risk Analysis of Existing Data on Phenylethanol Acetate (CL-BIB-0078)
Ambient Air Monitoring for PCBs in El Dorado, Arkansas	Risk Analysis of Existing Data on Phthalimide (CL-BIB-0079)
<u>REGULATIONS OR RULES (RR)</u>	Harvard University Cooperative Agreement - Monographs On Research and Policy Issues Including Sensitive Individuals, Biological Screening Tests, Air Carcinogen Policy, and Regulation of Toxic and Nuclear Waste (CL-BIB-0107)
Chromium Project for Industrial Cooling Towers	Evaluate the Contribution of Source Emissions to Cancer Risk (CL-BIB-0113)
<u>REGULATORY DEVELOPMENT GUIDANCE (RDG)</u>	
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient	SAND AND GRAVEL (144) Health Experience of Industrial Sand Workers (CL-BIB-0208)
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient	Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient	Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis (CL-BIB-0309)
Evaluation of Guidance Engineering Support - Chlorofluorocarbon Use Category U1	<u>SANITARY SERVICES</u> (695) Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities (CL-BIB-0030)
Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2	List of Superfund Hazardous Waste Sites with Air Contamination Problems (CL-BIB-0054)
Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2	Potential for Air Releases From CERCLA Sites (CL-BIB-0055)
<u>RESINS (CL-RESIN)</u>	Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System (CL-BIB-0137)
Assessment of Potential Emissions from Wafer Board Manufacturing Plants	
<u>RISK ASSESSMENT (RA)</u>	Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility (CL-BIB-0138)
EPA-State Pilot Project For the Control of Acrylonitrile Emissions and Disposal Facilities	Field Assessment of Steam VOC Removal Efficiencies (CL-BIB-0140)
Risk Analysis of Existing Data on Triethyl Phosphate	Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities (CL-BIB-0141)
Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters	Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-BIB-0142)
Information Gathering and Risk Analysis of Existing Data on Phenylethanol	Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water (CL-BIB-0143)

<u>SANITARY SERVICES (495) (continued)</u>	<u>Rhode Island Toxics Integration Project - Evaluation of Emission from Sewage Treatment Plants</u>	(CL-BIB-0145)	<u>Health Experience of Industrial Sand Workers</u>	(CL-BIB-0208)
	<u>New York State Stack Sampling of Resource Recovery Plants</u>	(CL-BIB-0146)	<u>Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms</u>	(CL-BIB-0217)
	<u>Municipal Waste Combustion Study</u>	(CL-BIB-0266)	<u>Alveolar Type II Cells; Effect of Silica</u>	(CL-BIB-0218)
	<u>Dioxin Analysis of Hospital Incinerator Ash</u>	(CL-BIB-0292)	<u>Occupational Exposure During Sugar Cane Harvesting</u>	(CL-BIB-0250)
	<u>The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility</u>	(CL-BIB-0293)	<u>Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis</u>	(CL-BIB-0309)
	<u>Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF</u>	(CL-BIB-0295)	<u>SODIUM HYDROXIDE (1310-73-2)</u> <u>Decision on Regulation of Sodium Hydroxide Under the Clean Air Act</u>	(CL-BIB-0272)
	<u>Ambient Air Monitoring for PCBs in El Dorado, Arkansas</u>	(CL-BIB-0299)	<u>SOLVENTS (CL-SOLVENT)</u> <u>Behavioral Teratology of Alcohol Solvents</u>	(CL-BIB-0165)
	<u>SANITARY SERVICES, NEC (4959)</u> <u>Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF</u>	(CL-BIB-0295)	<u>Neurotoxicity of Aliphatic Carbon Solvents</u> <u>SOURCE ASSESSMENT (SA)</u> <u>Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB)</u>	(CL-BIB-0166)
	<u>SECONDARY NONFERROUS METALS (334)</u> <u>Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes</u>	(CL-BIB-0148)	<u>EPA-State Pilot Project For the Control of Acrylonitrile Emissions</u> <u>List of Superfund Hazardous Waste Sites with Air Contamination Problems</u>	(CL-BIB-0023)
	<u>SELENIUM COMPOUNDS, AS SE (7782-49-2)</u> <u>Decision on Regulation of Selenum and its Compounds Under the Clean Air Act</u>	(CL-BIB-0270)	<u>Potential for Air Releases From CERCLA Sites</u> <u>Hazardous Air Pollutants in the Urban Environment</u>	(CL-BIB-0027)
	<u>SERVICES TO BUILDINGS (734)</u> <u>Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers</u>	(CL-BIB-0153)	<u>Evaluate the Contribution of Source Emissions to Cancer Risk</u> <u>Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment</u>	(CL-BIB-0104)
	<u>SEWERAGE SYSTEMS (4952)</u> <u>Rhode Island Toxics Integration Project - Evaluation of Emission from Sewage Treatment Plants</u>	(CL-BIB-0293)	<u>Integrated Air Cancer Project: Wood Stove Operating Profiles</u> <u>Demonstration of Low-Cost Reduction of Indoor Radon From Soil</u>	(CL-BIB-0120)
	<u>The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility</u>		<u>Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System</u>	(CL-BIB-0129)
	<u>SILICA (7631-86-9)</u> <u>Effective Silica Indices of Respirable Mineral Dusts (CL-BIB-0195)</u>		<u>Study of Workers in the Dusty Trades in North Carolina - NCI</u>	(CL-BIB-0137)

SOURCE ASSESSMENT (SA) (continued)

Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility (CL-BIB-0138)	<u>Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM)</u> Indoor Air Quality Research Dioxin Analysis of Hospital Incinerator Ash	(CL-BIB-0263) (CL-BIB-0290) (CL-BIB-0292)
Field Assessment of Steam VOC Removal Efficiencies (CL-BIB-0140)	 Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF	(CL-BIB-0295)
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities (CL-BIB-0141)	 Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho	 (CL-BIB-0296)
Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-BIB-0142)	 Study to Define and Determine Mitigation Methods for Air Pollution in Puget Sound	 (CL-BIB-0297)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water (CL-BIB-0143)	 Ambient Air Monitoring in Portland, Oregon (Urban Soup)	 (CL-BIB-0298)
Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants (CL-BIB-0145)	 Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient	 (CL-BIB-0300)
New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)	 Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient	 (CL-BIB-0301)
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes (CL-BIB-0148)	 Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient	 (CL-BIB-0302)
2-Phase Project to Identify Metro Area Point Sources and Develop an Emissions Inventory (CL-BIB-0152)	 Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques	 (CL-BIB-0313)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)	 Chamber Studies Characterizing Emissions from Unvented Combustion Sources	 (CL-BIB-0326)
Pesticide Impact Study from Field and Slash Burning (CL-BIB-0159)	 Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant	 (CL-BIB-0333)
Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action (CL-BIB-0199)	 SOURCE SAMPLING (SS)	 (CL-BIB-0081)
Acrolein Preliminary Source Assessment (CL-BIB-0254)	 Develop Sampling Methods for Speciated Nickel	 (CL-BIB-0082)
Phosgene Preliminary Source Assessment (CL-BIB-0255)	 Validate an Emission Test Method for Dioxins	 (CL-BIB-0084)
Acetaldehyde Preliminary Source Assessment (CL-BIB-0256)	 Source Test Methods for Ammonia and Chlorine	 (CL-BIB-0087)
Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-BIB-0258)	 Report on Development of New Sampling and Analysis Techniques for Ambient Hazardous Air Pollutants (HAP)	
Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions (CL-BIB-0259)		
Locating and Estimating Air Emissions from Sources of Benzene (CL-BIB-0262)		

<u>SOURCE SAMPLING (SS) (continued)</u>	<u>Hazardous Air Pollutants in the Urban Environment</u>	(CL-BIB-0104)	<u>SOURCE SAMPLING (SS) (continued)</u>	<u>Evaluation of HAP Controls under Transient Conditions</u>	(CL-BIB-0332)
Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants		(CL-BIB-0105)	North West Wood Stove Study		(CL-BIB-0334)
Update of a Data Base on VOC in the Atmosphere		(CL-BIB-0106)	VOC and HAP Control of Department of Defense Facilities		(CL-BIB-0335)
New York State Stack Sampling of Resource Recovery Plants		(CL-BIB-0146)	<u>SPECIAL TRADE CONTRACTORS (17)</u>		(CL-BIB-0018)
Analysis of Acid Precipitation Samples Collected in West Virginia, Delaware, and Maryland		(CL-BIB-0147)	Asbestos NESHAP Revision		(CL-BIB-0212)
Effective Silica Indices of Respirable Mineral Dusts		(CL-BIB-0195)	<u>Prospective Study of Welders of Mild Steel</u>		
Analytical Methods Development for Toxic Substances		(CL-BIB-0287)	<u>SPECIAL TRADE CONTRACTORS, NEC (1799)</u>		(CL-BIB-0212)
Develop Source Methods for Hazardous Waste		(CL-BIB-0289)	<u>Prospective Study of Welders of Mild Steel</u>		
The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility		(CL-BIB-0293)	<u>STYRENE (100-42-5)</u>		
Particulate and Tissue Analysis Service and Research		(CL-BIB-0307)	Decision on Regulation of Styrene Under the Clean Air Act		(CL-BIB-0049)
Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing		(CL-BIB-0310)	<u>SUGAR CROPS (0133)</u>		(CL-BIB-0227)
Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques		(CL-BIB-0313)	Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho		(CL-BIB-0296)
Development and Demonstration of Indoor Radon Reduction Measures for Homes		(CL-BIB-0318)	<u>SULFURIC ACID (7664-93-9)</u>		
Regulatory Impact Analysis Engineering Support - Chlorofluorocarbons Use Category U1		(CL-BIB-0319)	Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills		(CL-BIB-0241)
Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2		(CL-BIB-0323)	Mortality of Sulfuric Acid Exposed Workers		(CL-BIB-0246)
Catalytic Wood Stove Field Performance and Emission Monitoring		(CL-BIB-0325)	<u>TETRACHLORODIBENZODIONIN 2,3,7,8-P- (1746-01-6)</u>		(CL-BIB-0082)
Toxics and VOC Research Program Priority Development		(CL-BIB-0328)	Validate an Emission Test Method for Dioxins		
			<u>Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin</u>		
			<u>TETRACHLOROETHYLENE (127-18-4)</u>		
			Organic Solvent Cleaning NESHAP		(CL-BIB-0014)
			Update of Completed Cohort Mortality Studies - NC1		(CL-BIB-0227)
			Hazardous Organic NESHAP		(CL-BIB-0261)
			<u>TEXTILE MILL PRODUCTS (22)</u>		
			Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment		(CL-BIB-0120)
			Vyssinosis Prevention		(CL-BIB-0192)

<u>TEXTILE MILL PRODUCTS (22)</u> (continued)		<u>TOXICITY TESTING (TT)</u> (continued)
Comparative Research in Analytical Pathology	(CL-BIB-0216)	Neurobehavioral Effects from Single/Mixed Spray Paint Agents (CL-BIB-0167)
<u>TOLUENE (108-88-3)</u> Mortality and Industrial Hygiene Study of Workers Exposed to Toluene	(CL-BIB-0222)	Neurotoxicity from Exposure to Heavy Metals (CL-BIB-0168)
<u>TOLUENE DIISOCYANATE (26471-62-5)</u> Cohort Mortality Study of Toluene Diisocyanate Exposed Workers	(CL-BIB-0243)	Methodologies for Workplace Neurotoxicity (CL-BIB-0169)
Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions	(CL-BIB-0259)	Assessment of Carcinogenic Activity of Asphalt Fumes (CL-BIB-0174)
<u>TOLUENE 24,DIISOCYANATE (584-84-9)</u> Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act	(CL-BIB-0050)	Inhalation Reproductive and Developmental Toxicity Testing (CL-BIB-0175)
<u>TOXAPHENE (8001-35-2)</u> Decision on Regulation of Campochlor Under the Clean Air Act	(CL-BIB-0273)	Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether(Diglyme) (CL-BIB-0178)
<u>TOXICITY TESTING (TT)</u> Determine Pulmonary Dose-Response Relationships	(CL-BIB-0108)	V205- NTP Chemical Manager (CL-BIB-0181)
Determine Neurotoxic Dose-Response Relationships	(CL-BIB-0109)	In Vitro Tests for Workplace Carcinogens (CL-BIB-0182)
Characterize Genotoxic Dose-Response Relationships	(CL-BIB-0110)	Dimethylformamide- NTP Chemical Manager (CL-BIB-0186)
Identify and Evaluate Toxic Components of Air Pollution	(CL-BIB-0111)	Semen Analysis in Animals, Longitudinal and Field Studies (CL-BIB-0188)
Determine the Significance of Neurotoxic Response Indicators	(CL-BIB-0112)	Evaluation of Drosophila for Teratogen Screening (CL-BIB-0189)
Evaluate the Contribution of Source Emissions to Cancer Risk	(CL-BIB-0113)	Temporal Factors Influencing Carcinogenicity of Industrial Chemicals (CL-BIB-0190)
Develop Methods to Identify Reproductive Toxicity of Air Pollutants	(CL-BIB-0114)	Vyssinosis Prevention (CL-BIB-0192)
Particulate and Tissue Analysis Service and Research	(CL-BIB-0161)	Endotoxins in Cotton (CL-BIB-0214)
Evaluation of Mesothelioma Production by Asbestos Substitutes	(CL-BIB-0162)	Comparative Research in Analytical Pathology (CL-BIB-0216)
Behavioral Teratology of Alcohol Solvents	(CL-BIB-0165)	Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)
Neurotoxicity of Aliphatic Carbon Solvents	(CL-BIB-0166)	Alveolar Type II Cells; Effect of Silica (CL-BIB-0218)
		Development of Methods to Interpret Metabolism Data (CL-BIB-0281)
		Cellular and Molecular Cardiac Toxicology (CL-BIB-0303)
		Arylamine Adducts in Blood as Indicators of Exposure (CL-BIB-0304)

TOXICITY TESTING (II) (continued)
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Evaluation of Mesothelioma Production by
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<u>WELDING REPAIR</u> (7692) (continued)	<u>ZINC OXIDE, FUME</u> (1314-13-2) Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act
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<u>WRECKING AND DEMOLITION WORK</u> (1795)	
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<u>ZINC</u> (7440-66-6)	
<u>Decision on Regulation of Xylene Under the Clean Air Act</u>	(CL-BIB-0052)
<u>Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act</u>	(CL-BIB-0053)
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<u>100-42-5 (STYRENE)</u>	<u>Decision on Regulation of Styrene Under the Clean Air Act</u> (CL-BIB-0049)	<u>101-77-9 (METHYLENEDIAMINE, 6,4'-)</u> Causes of Mortality Among Workers Exposed to Methylenedianiline (MDA) (CL-BIB-0239)
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	<u>Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure</u>	<u>107-02-8 (ACROLEIN)</u> Decision on Regulation of Acrolein Under the Clean Air Act (CL-BIB-0035)
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	<u>Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques</u>	<u>107-06-2 (ETHYLENE DICHLORIDE)</u> Acrolein Preliminary Source Assessment (CL-BIB-0254)
	<u>Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey</u>	<u>107-13-1 (ACRYLONITRILE)</u> Hazardous Organic NESHAP (CL-BIB-0261)
	<u>Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, N. J.</u>	<u>108-31-6 (MALEIC ANHYDRIDE)</u> EPA-State Pilot Project For the Control of Acrylonitrile Emissions Decision on Regulation of Maleic Anhydride Under the Clean Air Act (CL-BIB-0027)
	<u>Investigation of Radon Entry into Houses and Effectiveness of Mitigation Techniques - Evaluation Phase</u>	<u>108-88-3 (TOLUENE)</u> Mortality and Industrial Hygiene Study of Workers Exposed to Toluene (CL-BIB-0276)
	<u>Development and Demonstration of Indoor Radon Reduction Measures for Homes</u>	<u>109 (MISCELLANEOUS METAL ORES)</u> Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-BIB-0222)
<u>101-14-4 (CURENE)</u>	<u>Investigation of Workers Exposed to MOCA</u>	<u>1094 (URANIUM-RADIUM-VANADIUM ORES)</u> Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-BIB-0244)
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<u>11 (ANTHRACITE MINING) (continued)</u>	<u>121 (BITUMINOUS COAL AND LIGNITE MINING)</u>
Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners (CL-BIB-0205)	Comparative Research in Analytical Pathology (CL-BIB-0216)
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<u>111 (ANTHRACTIC MINING)</u>	
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<u>115-07-1 (PROPYLENE)</u> Decision on Regulation of Propylene Under the Clean Air Act (CL-BIB-0265)	Mortality of Diesel Exposed Miners <u>1309-37-1 (IRON OXIDE FUME)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders (CL-BIB-0202)
<u>117-81-7 (ETHYLHEXYLPHthalATE BIS,2-)</u> Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-BIB-0232)	<u>1310-73-2 (SODIUM HYDROXIDE)</u> Decision on Regulation of Sodium Hydroxide Under the Clean Air Act (CL-BIB-0272)
<u>117-82-8 (PHthalIC ACID, DI(METHOXYETHYL) ESTER)</u> Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters (CL-BIB-0076)	<u>1314-13-2 (ZINC OXIDE, FUME)</u> Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act (CL-BIB-0053)
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Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)	Evaluation of Mesothelioma Production by Asbestos Substitutes (CL-BIB-0162)
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<u>1332-21-4. (ASBESTOS) (continued)</u>	<u>Study of Workers in the Dusty Trades in North Carolina - NCI</u>	<u>(CL-BIB-0207)</u>	<u>149. (MISCELLANEOUS NONMETALLIC MINERALS)</u> Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms	<u>15. (GENERAL BUILDING CONTRACTORS)</u> Asbestos MESHP Revision	<u>(CL-BIB-0018)</u>
<u>Development of Short Term Assays to Predict Dust-Induced Lung Disease</u>	<u>(CL-BIB-0305)</u>		<u>16. (HEAVY CONSTRUCTION CONTRACTORS)</u> Asbestos MESHP Revision	<u>(CL-BIB-0018)</u>	
<u>Evaluation of Mesothelioma Production by Asbestos Substitutes</u>	<u>(CL-BIB-0306)</u>		<u>17. (SPECIAL TRADE CONTRACTORS)</u> Asbestos MESHP Revision	<u>(CL-BIB-0018)</u>	
<u>1332-37-2 (IRON OXIDE)</u> <u>Morbidity and Industrial Hygiene Study of Mild Steel Welders</u>	<u>(CL-BIB-0202)</u>		<u>Prospective Study of Welders of Mild Steel</u> <u>1746-01-6 (TETRACHLOROBENZOPOXIN, 2,3,7,8-P-)</u> <u>Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB)</u>	<u>Validate an Emission Test Method for Dioxins</u> <u>Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin</u>	<u>(CL-BIB-0082)</u> <u>(CL-BIB-0236)</u>
<u>1336-36-3 (POLYCHLORINATED BIPHENYLS)</u> <u>National Occupational Health Survey of Mining</u>	<u>(CL-BIB-0023)</u>		<u>179. (MISC. SPECIAL TRADE CONTRACTORS)</u> Asbestos MESHP Revision	<u>(CL-BIB-0018)</u>	
<u>New York State Stack Sampling of Resource Recovery Plants</u>	<u>(CL-BIB-0146)</u>		<u>1795. (RECKLING AND DEMOLITION WORK)</u> Asbestos MESHP Revision	<u>(CL-BIB-0018)</u>	
<u>Update of Completed Cohort Mortality Studies - NCI</u>	<u>(CL-BIB-0227)</u>		<u>1799. (SPECIAL TRADE CONTRACTORS, NEC)</u> Asbestos MESHP Revision	<u>(CL-BIB-0212)</u>	
<u>14. (NONMETALLIC MINERALS, EXCEPT FUELS)</u>			<u>1893-33-0 (PIPERONYL)</u> Chemical Hazard Information Profile for Piperonyl-Based UV Light Stabilizers	<u>(CL-BIB-0285)</u>	
<u>Health Experience of Industrial Sand Workers</u>	<u>(CL-BIB-0208)</u>		<u>20. (FOOD AND KINDRED PRODUCTS)</u> A Study of Worker Exposure to Grain Fumigants	<u>(CL-BIB-0249)</u>	
<u>Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms</u>	<u>(CL-BIB-0217)</u>		<u>206. (GRAIN MILL PRODUCTS)</u> A Study of Worker Exposure to Grain Fumigants	<u>(CL-BIB-0249)</u>	
<u>Alveolar Type II Cells; Effect of Silica</u>	<u>(CL-BIB-0218)</u>		<u>22. (TEXTILE MILL PRODUCTS)</u> Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	<u>(CL-BIB-0120)</u>	
<u>Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis</u>	<u>(CL-BIB-0309)</u>		<u>Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis</u>	<u>(CL-BIB-0192)</u>	
<u>144. (SAND AND GRAVEL)</u> <u>Health Experience of Industrial Sand Workers</u>	<u>(CL-BIB-0208)</u>		<u>Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis</u>	<u>(CL-BIB-0216)</u>	
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<u>23 (APPAREL AND OTHER TEXTILE PRODUCTS)</u>	Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0220)	<u>2631 (PAPERBOARD MILLS)</u> Assessment of Potential Emissions from Wafer Board Manufacturing Plants	(CL-BIB-0258)
<u>24 (LUMBER AND WOOD PRODUCTS)</u>	Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant	(CL-BIB-0333)	<u>26471-62-5 (TOLUENE DIISOCYANATE)</u> Cohort Mortality Study of Toluene Diisocyanate Exposed Workers	(CL-BIB-0243)
<u>249 (MISCELLANEOUS WOOD PRODUCTS)</u>	Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant	(CL-BIB-0333)	<u>Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions</u>	(CL-BIB-0259)
<u>2499 (WOOD PRODUCTS, NEC)</u>	Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant	(CL-BIB-0333)	<u>28 (CHEMICALS AND ALLIED PRODUCTS)</u> Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0120)
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<u>251 (HOUSEHOLD FURNITURE)</u>	Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	<u>Temporal Factors Influencing Carcinogenicity of Industrial Chemicals</u>	(CL-BIB-0190)
<u>2511 (WOOD HOUSEHOLD FURNITURE)</u>	Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	<u>Mortality Study of Chemical Plants in Kanawha Valley, West Virginia</u>	(CL-BIB-0221)
<u>2512 (UPHOLSTERED HOUSEHOLD FURNITURE)</u>	Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	<u>Exposure to Butadiene in the Industrial Environment</u>	(CL-BIB-0234)
<u>2519 (HOUSEHOLD FURNITURE, NEC)</u>	Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	<u>Morbidity and Mortality Study of Workers Exposed to Nitroglycerin</u>	(CL-BIB-0247)
<u>252 (OFFICE FURNITURE)</u>	Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	<u>Phosgene Preliminary Source Assessment</u>	(CL-BIB-0255)
<u>2521 (WOOD OFFICE FURNITURE)</u>	Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	<u>2812 (INDUSTRIAL INORGANIC CHEMICALS)</u> Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0120)
<u>26 (PAPER AND ALLIED PRODUCTS)</u>	Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	<u>2816 (INDORGANIC PIGMENTS)</u> Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0148)
<u>263 (PAPERBOARD MILLS)</u>	Assessment of Potential Emissions from Wafer Board Manufacturing Plants	(CL-BIB-0258)	<u>286 (INDUSTRIAL ORGANIC CHEMICALS)</u> Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-BIB-0190)
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			<u>2869 (INDUSTRIAL ORGANIC CHEMICALS, NEC)</u> Phosgene Preliminary Source Assessment	(CL-BIB-0255)

<u>289 (MISCELLANEOUS CHEMICAL PRODUCTS)</u>	<u>332 (IRON AND STEEL FOUNDRIES)</u> Morbidity and Mortality Study of Workers Exposed to Nitroglycerin (CL-BIB-0247)	<u>Morbidity and Industrial Hygiene Study Of Mild Steel Welders</u> (CL-BIB-0202)
<u>2892 (EXPLOSIVES)</u>	<u>Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium</u> (CL-BIB-0240)	<u>Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium</u> (CL-BIB-0240)
<u>309-00-2 (ALDRIN)</u> Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient	<u>Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills</u> (CL-BIB-0241)	<u>Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills</u> (CL-BIB-0241)
<u>33 (PRIMARY METAL INDUSTRIES)</u> Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP	<u>Mortality of Sulfuric Acid Exposed Workers</u> (CL-BIB-0246)	<u>Mortality of Sulfuric Acid Exposed Workers</u> (CL-BIB-0246)
<u>334 (SECONDARY NONFERROUS METALS)</u> Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP	<u>Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes</u> (CL-BIB-0148)	<u>Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes</u> (CL-BIB-0148)
<u>34 (FABRICATED METAL PRODUCTS)</u> Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	<u>Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers</u> (CL-BIB-0153)	<u>Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers</u> (CL-BIB-0153)
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<u>Cohort Mortality Study of Antimony Smelter Workers</u> (CL-BIB-0233)	<u>Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers</u> (CL-BIB-0153)	<u>Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers</u> (CL-BIB-0153)
<u>Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium</u> (CL-BIB-0240)	<u>344.3 (TRANSPORTATION EQUIPMENT)</u> Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-BIB-0241)	<u>344.3 (TRANSPORTATION EQUIPMENT)</u> Cohort Mortality Analysis of United Auto Workers Cohorts (CL-BIB-0219)
<u>Mortality of Sulfuric Acid Exposed Workers</u> (CL-BIB-0246)	<u>371 (MOTOR VEHICLES AND EQUIPMENT)</u> Mortality of Sulfuric Acid Exposed Workers (CL-BIB-0246)	<u>371 (MOTOR VEHICLES AND EQUIPMENT)</u> Mortality Analysis of United Auto Workers Cohorts (CL-BIB-0219)
<u>331 (BLAST FURNACE AND BASIC STEEL PRODUCTS)</u> Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP	<u>38 (INSTRUMENTS AND RELATED PRODUCTS)</u> (CL-BIB-0012)	<u>38 (INSTRUMENTS AND RELATED PRODUCTS)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders (CL-BIB-0202)
<u>Morbidity and Industrial Hygiene Study of Mild Steel Welders</u> (CL-BIB-0202)	<u>384 (MEDICAL INSTRUMENTS AND SUPPLIES)</u> Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-BIB-0240)	<u>384 (MEDICAL INSTRUMENTS AND SUPPLIES)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)
<u>Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium</u> (CL-BIB-0240)	<u>45 (TRANSPORTATION BY AIR)</u> Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-BIB-0241)	<u>45 (TRANSPORTATION BY AIR)</u> Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data (CL-BIB-0294)
<u>Mortality of Sulfuric Acid Exposed Workers</u> (CL-BIB-0246)	<u>458 (AIR TRANSPORTATION SERVICES)</u> Mortality of Sulfuric Acid Exposed Workers (CL-BIB-0246)	<u>458 (AIR TRANSPORTATION SERVICES)</u> Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data (CL-BIB-0294)
<u>3312 (BLAST FURNACES AND STEEL MILLS)</u> Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP		

<u>495 (SANITARY SERVICES) (continued)</u>	
The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	(CL-BIB-0293) Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF
Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF	(CL-BIB-0295) Ambient Air Monitoring for PCBs in El Dorado, Arkansas
Ambient Air Monitoring for PCBs in El Dorado, Arkansas	(CL-BIB-0299) <u>4959 (SANITARY SERVICES, NEC)</u> Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF
<u>4952 (SEWERAGE SYSTEMS)</u>	
The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	(CL-BIB-0293) <u>50-00-0 (FORMALDEHYDE)</u> Decision on Regulation of Formaldehyde Under the Clean Air Act
Rhode Island Toxics Integration Project - Evaluation of Emission from Sewage Treatment Plants	(CL-BIB-0145) Effects of Formaldehyde on the Respiratory System
<u>4953 (REFUSE SYSTEMS)</u>	
Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities	(CL-BIB-0030) Mortality and Industrial Hygiene Study of Formaldehyde
List of Superfund Hazardous Waste Sites With Air Contamination Problems	(CL-BIB-0054) Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA
Potential for Air Releases From CERCLA Sites	(CL-BIB-0055) <u>50-32-8 (BENZO(A)PYRENE)</u> Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	(CL-BIB-0137) <u>51 (WHOLESALE TRADE-NONDURABLE GOODS)</u> Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments
Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility	(CL-BIB-0138) <u>517 (PETROLEUM AND PETROLEUM PRODUCTS)</u> Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments
Field Assessment of Steam VOC Removal Efficiencies	(CL-BIB-0140) <u>55 (AUTOMOTIVE DEALERS & SERVICE STATIONS)</u> Organic Solvent Cleaning NESMAP
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities	(CL-BIB-0141) Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments
Field Assessment of Organics in Aerated Treatment Systems	(CL-BIB-0142) <u>55-63-0 (NITROGLYCERINE)</u> Morbidity and Mortality Study of Workers Exposed to Nitroglycerin
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-BIB-0143) <u>554 (GASOLINE SERVICE STATIONS)</u> Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments
New York State Stack Sampling of Resource Recovery Plants	(CL-BIB-0146)
Municipal Waste Combustion Study	(CL-BIB-0266)
Dioxin Analysis of Hospital Incinerator Ash	(CL-BIB-0292) <u>56-23-5 (CARBON TETRACHLORIDE)</u> Hazardous Organic NESMAP

<u>57-74-9 (CHLORDANE)</u>	Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient	(CL-BIB-0302)	<u>71-55-6 (TRICHLOROETHANE,1,1,1-2)</u> Organic Solvent Cleaning NESMAP	(CL-BIB-0014)
<u>584-86-9 (TOLUENE,24,DIISOCYANATE)</u>	Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act	(CL-BIB-0050)	<u>72- (PERSONAL SERVICES)</u> Organic Solvent Cleaning NESMAP	(CL-BIB-0014)
<u>593-70-4 (CHLOROFLUOROMETHANE)</u>	Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1	(CL-BIB-0319)	<u>721 (LAUNDRY, CLEANING, & GARMENT SERVICES)</u> Organic Solvent Cleaning NESMAP	(CL-BIB-0014)
<u>598-55-0 (METHYL CARBAMATE)</u>	Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2	(CL-BIB-0323)	<u>73 (BUSINESS SERVICES)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-BIB-0153)
<u>CFC Chemical Substitutes</u>		(CL-BIB-0324)	<u>734 (SERVICES TO BUILDINGS)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-BIB-0153)
<u>60-12-8 (PHENETHYL ALCOHOL)</u>	Chemical Hazard Information Profile for Methyl Carbamate	(CL-BIB-0283)	<u>734/2 (DISINFECTING AND EXTERMINATING)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-BIB-0153)
<u>624-83-9 (METHYL ISOCYANATE)</u>	Information Gathering and Risk Analysis of Existing Data on Phenylethanol	(CL-BIB-0077)	<u>74-90-8 (HYDROGEN CYANIDE)</u> Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act	(CL-BIB-0264)
<u>67-56-1 (METHANOL)</u>	Decision on Regulation of Methyl Isocyanate Under the Clean Air Act	(CL-BIB-0051)	<u>7440-02-0 (NICKEL POWDER)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	(CL-BIB-0029)
<u>67-66-3 (CHLOROFORM)</u>	Hazardous Organic NESMAP	(CL-BIB-0261)	<u>7440-36-0 (ANTIMONY)</u> Cohort Mortality Study of Antimony Smelter Workers	(CL-BIB-0081)
<u>68-12-2 (DIMETHYLFORMAMIDE,N,N-)</u>	Dimethylformamide- NTP Chemical Manager	(CL-BIB-0186)	<u>7440-38-2 (ARSENIC AND COMPOUNDS AS AS)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	(CL-BIB-0029)
<u>71-43-2 (BENZENE)</u>	Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	(CL-BIB-0028)	<u>7440-41-7 (BERYLLIUM)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	(CL-BIB-0029)
	Update of Completed Cohort Mortality Studies - NCI	(CL-BIB-0227)	Health Assessment Document for Beryllium, External Review	(CL-BIB-0057)
	Locating and Estimating Air Emissions from Sources of Benzene	(CL-BIB-0262)	Beryllium Retrospective Cohort Investigation - NCI	(CL-BIB-0229)
			<u>7440-43-9 (CADMIUM)</u> Cadmium NESMAP	(CL-BIB-0010)

<u>7440-43-9 (CADMIUM) (continued)</u>	<u>75-09-2 (METHYLENE CHLORIDE)</u>	(CL-BIB-0014)
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	Organic Solvent Cleaning NESHAP	(CL-BIB-0261)
Neurotoxicity from Exposure to Heavy Metals	Hazardous Organic NESHAP	
Update of Completed Cohort Mortality Studies - NCI	<u>75-21-8 (ETHYLENE OXIDE)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-BIB-0153)
<u>7440-47-3 (CHROMIUM)</u>	Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-BIB-0190)
Chromium NESHAP		
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	Mortality Study of Chemical Plants in Kanawha Valley, West Virginia	(CL-BIB-0221)
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	Ethylene Oxide Mortality Study - NCI	(CL-BIB-0224)
Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-BIB-0232)
Chromium Project for Industrial Cooling Towers	Hazardous Organic NESHAP	(CL-BIB-0261)
Health Assessment for Chromium, Update	Ethylene Oxide Control Technology Development Program for Hospital Sterilizers - Phase II	(CL-BIB-0316)
<u>7440-66-6 (ZINC)</u>	<u>75-44-5 (PHOSGENE)</u> Decision on Regulation of Phosgene Under the Clean Air Act	(CL-BIB-0046)
Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act	Health Assessment Document for Phosgene, External Review	(CL-BIB-0063)
<u>7487-94-7 (MERCURIC CHLORIDE)</u>		
Decision on Regulation of Mercuric Chloride Under the Clean Air Act	(CL-BIB-0277)	
<u>75-00-3 (CHLOROETHANE)</u>	Phosgene Preliminary Source Assessment	(CL-BIB-0255)
Decision on Regulation of Ethyl Chloride Under the Clean Air Act	<u>75-56-9 (PROPYLENE OXIDE)</u> Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act	(CL-BIB-0048)
<u>75-01-4 (VINYL CHLORIDE)</u>		
Update of Completed Cohort Mortality Studies - NCI	<u>76 (MISCELLANEOUS REPAIR SERVICES)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-BIB-0202)
<u>75-07-0 (ACETALDEHYDE)</u>	Prospective Study of Welders of Mild Steel	(CL-BIB-0212)
Decision on Regulation of Acetaldehyde Under the Clean Air Act	Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-BIB-0240)
Health Assessment Document for Acetaldehyde, External Review		
Acetaldehyde Preliminary Source Assessment	<u>76-13-1 (TRICHLOROTRIFLUOROMETHANE, 1,1,2-2)</u> Organic Solvent Cleaning NESHAP	(CL-BIB-0014)

<u>76-44-8 (HEPTACHLOR)</u> Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient	<u>769 (MISCELLANEOUS REPAIR SHOPS)</u> Morbidity and Industrial Hygiene Study Of Mild Steel Welders (CL-BIB-0202)
<u>7631-86-9 (SILICA)</u> Effective Silica Indices of Respirable Mineral Dusts	<u>760 (WELDING REPAIR)</u> Prospective Study of Welders of Mild Steel (CL-BIB-0212)
Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners	<u>7602 (WELDING REPAIR)</u> Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-BIB-0240)
Study of Workers in the Dusty Trades in North Carolina - NCI	<u>7602 (WELDING REPAIR)</u> Morbidity and Industrial Hygiene Study Of Mild Steel Welders (CL-BIB-0202)
Health Experience of Industrial Sand Workers	<u>7602 (WELDING REPAIR)</u> Prospective Study of Welders of Mild Steel (CL-BIB-0212)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung defense Mechanisms	<u>7602 (WELDING REPAIR)</u> Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-BIB-0240)
Alveolar Type II Cells; Effect of Silica	<u>7723-14-0 (PHOSPHOROUS (YELLOW))</u> Decision on Regulation of Phosphorus Under the Clean Air Act (CL-BIB-0267)
Occupational Exposure During Sugar Cane Harvesting	<u>7758-97-6 (LEAD CHROMATE)</u> Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI (CL-BIB-0228)
Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis	<u>7782-49-2 (SELENIUM COMPOUNDS, AS SE)</u> Decision on Regulation of Selenium and its Compounds Under the Clean Air Act (CL-BIB-0270)
<u>7647-01-0 (HYDROGEN CHLORIDE)</u> Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act	<u>7782-50-5 (CHLORINE)</u> Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act (CL-BIB-0037)
Health Assessment Document for Chlorine & Hydrogen Chloride, External Review	Source Test Methods for Ammonia and Chlorine (CL-BIB-0084)
<u>7664-39-3 (HYDROGEN FLUORIDE)</u> Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act	Health Assessment Document for Chlorine & Hydrogen Chloride, External Review (CL-BIB-0280)
<u>7664-41-7 (AMMONIA)</u> Decision on Regulation of Ammonia Under the Clean Air Act	<u>7783-06-4 (HYDROGEN SULFIDE)</u> Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act (CL-BIB-0042)
Source Test Methods for Ammonia and Chlorine	Health Assessment Document for Hydrogen Sulfide, External Review (CL-BIB-0062)
<u>7664-93-9 (SULFURIC ACID)</u> Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills	<u>78-40-0 (TRIETHYL PHOSPHATE)</u> Risk Analysis of Existing Data on Triethyl Phosphate (CL-BIB-0075)
Mortality of Sulfuric Acid Exposed Workers	

<u>78-93-3 (BUTANONE 2-)</u> Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone	<u>91-20-3 (NAPHTHALENE)</u> Decision on Regulation of Naphthalene Under the Clean Air Act (CL-BIB-0044)
<u>79-01-6 (TRICHLOROETHYLENE)</u> Organic Solvent Cleaning NESHAP Hazardous Organic NESHAP Health Assessment for Trichloroethylene-Cancer Update	<u>95-14-7 (BENZOTRIAZOLE, 1,2,3-)</u> Chemical Hazard Information Profile for Benzotriazol-Based UV Light <u>95-95-4 (TRIChLOROPHENOL, 2,4,5-)</u> Mortality of Dioxin Workers (CL-BIB-0226)
<u>80 (HEALTH SERVICES)</u> Dioxin Analysis of Hospital Incinerator Ash Ethylene Oxide Control Technology Development Program for Hospital Sterilizers-Phase II	<u>80-62-6 (METHYL METHACRYLATE)</u> Decision on Regulation of Methyl Methacrylate Under the Clean Air Act <u>8001-35-2 (TOXAPHENE)</u> Decision on Regulation of Camphochlor Under the Clean Air Act <u>8052-42-4 (ASPHALT (PETROLEUM) FUMES)</u> Assessment of Carcinogenic Activity of Asphalt Fumes <u>806 (HOSPITALS)</u> Dioxin Analysis of Hospital Incinerator Ash Ethylene Oxide Control Technology Development Program for Hospital Sterilizers-Phase II <u>8062 (GENERAL MEDICAL & SURGICAL HOSPITALS)</u> Ethylene Oxide Control Technology Development Program for Hospital Sterilizers-Phase II <u>85-41-6 (PHTHALIMIDE)</u> Risk Analysis of Existing Data on Phthalimide <u>85-44-9 (PHTHALIC ANHYDRIDE)</u> Decision on Regulation of Phthalic Anhydride Under the Clean Air Act <u>87-86-5 (PENTACHLOROPHENOL)</u> Mortality of Dioxin Workers (CL-BIB-0226)

APPENDIX
EPA OFFICE OF DRINKING WATER PROJECTS

The EPA Office of Drinking Water (ODW) has studies underway on several potentially toxic chemicals as part of its regulatory development activities. Information on these projects has been included in the National Air Toxics Information Clearinghouse ongoing research and regulatory development projects document because many toxic drinking water contaminants being studied by ODW are also potential air pollutants. Clearinghouse users may find health information generated by ODW projects useful. For further information on the projects described below, contact: Joseph Cotruvo or Craig Vogt, Criteria and Standards Division, Office of Drinking Water (WH-550D), U. S. Environmental Protection Agency, 401 M Street, S.W., Washington, D.C., 20460, (202) 382-7575, (FTS) 382-7575.

Under the Safe Drinking Water Act (SDWA), the U. S. Environmental Protection Agency is required to publish regulations which apply to public drinking water systems and control specific contaminants which in the Administrator's judgment "may have any adverse effect on the health of persons." Information concerning these regulations is listed below.

**Drinking Water Regulations
under
1986 Amendments to SDWA**

Significant directives to EPA's standard-setting program for drinking water contaminants included in the 1986 Amendments to the SDWA are provided below:

- EPA is to set Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for 83 specific contaminants and for any other contaminant in drinking water which may have any adverse effect upon the health of persons and which is known or anticipated to occur in public water systems.
- Recommended Maximum Contaminant Levels (RMCLs) are now termed Maximum Contaminant Level Goals (MCLGs). No changes were made in the basis of an MCLG; i.e.:

MCLGs are non-enforceable health goals which are to be set at the level at which no known or anticipated adverse effects on the health of persons occur and which allows an adequate margin of safety.

- Maximum Contaminant Levels (MCLs) are to be set as close to MCLGs as is feasible. The definition of "feasible" is as follows:

Feasible means with the use of the best technology, treatment techniques and other means, which the Administrator finds, after examination for efficacy under field conditions and not solely under laboratory conditions, are generally available (taking costs into consideration).

Granular Activated Carbon (GAC) is stated in the SDWA as feasible for the control of synthetic organic chemicals (SOCs), and any technology or other means found to be best available for control of SOCs must be at least as effective in controlling SOCs as GAC.

- MCLGs and MCLs are to be proposed at the same time and also promulgated simultaneously.
 - MCLGs and MCLs/Monitoring requirements are to be set for 83 contaminants listed in the SDWA. The best available technology (BAT) must also be specified for each.
- The 83 contaminants are shown in Table A-1. Seven substitutes are allowed if regulation of any seven other contaminants would be more protective of public health. The list of substitutes must be proposed by June 19, 1987.
- The timetable to produce the MCLGs and MCLs/Monitoring requirements is as follows:
 - 9 by June 19, 1987
 - 40 by June 19, 1988
 - 34 by June 19, 1989
 - MCLGs and MCLs/Monitoring requirements are also to be set for other contaminants in drinking water that may pose a health risk.
 - The 1986 Amendments require the EPA to publish a list of drinking water contaminants that may require regulation under the SDWA.
 - The list must be published by January 1, 1988, and every 3 years following.
 - MCLGs and MCLs/Monitoring requirements are to be set for at least 25 contaminants on the list by January 1, 1991.
 - MCLGs and MCLs/Monitoring requirements are to be set for at least 25 contaminants every 3 years following January 1, 1991 (i.e., 1994, 1997, ...).
 - Criteria must be established from which States can determine which surface water systems must install filtration. The criteria are to be set by December 19, 1987.
 - A treatment technique regulation is to be set that will require all public water systems to use disinfection.
 - Variances are available. EPA will specify variance criteria.
 - The disinfection treatment rule must be promulgated by June 19, 1989.

- Requirements are to be set for water systems to monitor for unregulated contaminants.
 - Minimum monitoring frequency would be five years.
 - States can add/delete contaminants from list.
 - Monitoring regulations are to be promulgated by December 19, 1987.
- MCLGs and MCLs/Monitoring requirements are to be reviewed by EPA every three years.
- Other requirements/provisions of the 1986 Amendments:
 - Public notification regulations are to be changed to provide for different types and frequencies of notice depending upon the potential health risk. Final regulations are due September 19, 1987.
 - BAT for issuance of variances is to be set when MCLs are set. BAT may vary depending upon the size of systems and other factors, including costs.
 - Exemptions can be extended for systems with 500 connections or less. No limit is placed on the number of extensions but certain criteria will have to be met.
- A summary of deadlines pertinent to standard-setting is presented in Table A-2.
- The status of the National Primary Drinking Water Regulations is presented in Table A-3.

TABLE A-1. CONTAMINANTS REQUIRED TO BE REGULATED
UNDER THE SDWA OF 1986

<u>Volatile Organic Chemicals</u>	
Trichloroethylene	Benzene
Tetrachloroethylene	Chlorobenzene
Carbon tetrachloride	Dichlorobenzene
1,1,1-Trichloroethane	Trichlorobenzene
1,2-Dichloroethane	1,1-Dichloroethylene
Vinyl chloride	trans-1,2-Dichloroethylene
Methylene chloride	cis-1,2-Dichloroethylene
<u>Microbiology and Turbidity</u>	
Total coliforms	Viruses
Turbidity	Standard plate count
Giardia lamblia	Legionella
<u>Inorganics</u>	
Arsenic	Molybdenum
Barium	Asbestos
Cadmium	Sulfate
Chromium	Copper
Lead	Vanadium
Mercury	Sodium
Nitrate	Nickel
Selenium	Zinc
Silver	Thallium
Fluoride	Beryllium
Aluminum	Cyanide
Antimony	
<u>Organics</u>	
Endrin	1,1,2-Trichloroethane
Lindane	Vydate
Methoxychlor	Simazine
Toxaphene	PAHs
2,4-D	PCBs
2,4,5-TP	Atrazine
Aldicarb	Phthalates
Chlordane	Acrylamide
Dalapon	Dibromochloropropane (DBCP)
Diquat	1,2-Dichloropropane
Endothall	Pentachlorophenol

TABLE A-1. CONTAMINANTS REQUIRED TO BE REGULATED
UNDER THE SDWA OF 1986 (Continued)

<u>Organics (Continued)</u>	
Glyphosate	Pichloram
Carbofuran	Dinoseb
Aalachlor	Ethylene dibromide (EDB)
Epichlorohydrin	Dibromomethane
Toluene	Xylene
Adipates	Hexachlorocyclopentadiene
2,3,7,8-TCDD (Dioxin)	
<u>Radionuclides</u>	
Radium 226 and 228	Gross alpha particle activity
Beta particle and photon radioactivity	Radon
Uranium	

TABLE A-2. SUMMARY OF DEADLINES FOR STANDARDS UNDER SDWA OF 1986

What	When
Nine MCLGs and MCLs/Monitoring Requirements	June 19, 1987
Propose Seven Substitutes	June 19, 1987
Public Notice Revisions	September 19, 1987
Filtration Criteria	December 19, 1987
Monitoring for Unregulated Contaminants	December 19, 1987
List of Contaminants	January 1, 1988
40 MCLGs and MCLs/Monitoring Requirements	June 19, 1988
34 MCLGs and MCLs/Monitoring Requirements	June 19, 1989
Disinfection Treatment	June 19, 1989
25 MCLGs and MCLs/Monitoring Requirements	January 1, 1991

TABLE A-3. NATIONAL REVISED PRIMARY DRINKING WATER REGULATIONS SCHEDULE

Phase	Date
Phase 1: VOCs	
Advance notice of proposed rulemaking	March 4, 1982
Proposed MCLGs	June 12, 1984
Final MCLGs, propose MCLs, monitoring requirements	November 13, 1985
Final MCLs and monitoring requirements	October 1986
Phase 2: SOCs, IOCs, Microbials	
Advance notice of proposed rulemaking	October 5, 1983
Proposed MCLGs	November 13, 1985
Phase 2A: Fluoride	
Advance notice of proposed rulemaking	October 5, 1983
Proposed MCLG	May 14, 1985
Final MCLG, proposed MCL, SMCL, monitoring requirements	November 14, 1985
Final MCL, SMCL, monitoring requirements	April 2, 1986
Phase 3: Radionuclides	
Advance notice of proposed rulemaking	September 30, 1986
Phase 4: Disinfection By-products	
MCLGs/MCLs	1991

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