



DEPARTMENT OF THE ARMY
HEADQUARTERS, U. S. ARMY AIR DEFENSE ARTILLERY CENTER AND FORT BLISS
1733 PLEASANTON ROAD
FORT BLISS, TEXAS 79916-6816

FBO1

ENTERED

REPLY TO
ATTENTION OF:

ATZC-DOE (200)

MEMORANDUM FOR: New Mexico Environmental Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
PO Box 26110
Santa Fe, New Mexico 87505
Attention: Mr. Glenn vonGonten, Program Manager



SUBJECT: RI/FS Work Plan for Three New Mexico Landfills, SWMUs # 18, 27, & 29, EPA/NM RCRA Permit # 4213720101, United States Army Air Defense Artillery Center, and Fort Bliss

1. Attached please find:

- a. *Additional Investigations for FTBL-013/SWMU-18, FTBL-012/SWMU27, FTBL-011/SWMU-29 at Fort Bliss Military Reservation, New Mexico, Malcolm Pirnie, Inc., July 2001*
- b. *RCRA Facility Investigation for Five Solid Waste management Units Fort Bliss, Texas and New Mexico. Thompson Professional Group, Inc. July 1997*
- ✓ c. *EPA Region 6 Risk Assessment Program, Human Health Medium – Specific Screening Levels. USEPA, Region 6 Multimedia Planning and Permitting division, July 12 1999 (in back of reference 1.a. above)*
- d. *Historical Review Report. J.K. Wagner, Inc. August 2000*
- e. *Submittal of Final RFI Report for Solid Waste Management Units 19, 25B, 27B, and 76. Roy .F. Weston, Inc. May 1997*
- f. *Subsurface Investigation of the New Mexico Oxidation Lagoons (SWMU Nos. 19, 25B, and 27B). Tetra Tech EM, Inc. San Francisco, CA, July 1998*

2. Together these six documents make up the work plan to complete the investigation of the three New Mexico Fort Bliss Range Camp Landfills. The fourth landfill, FTBL-014, SWMU 25, is not part of this package as it is not part of the Installation Restoration Program as are the first three. It is anticipated however, that the final approved version of this work plan will be used as a pattern by the Solid Waste Program Manager, Directorate Of Environment, Fort Bliss to complete the investigation of SWMU 25. The work on SWMU 25 is contingent of course on future funding and priority ranking of non- IRP environmental projects.

3. It is our intention to brief the highlights of this work plan to you at our Tuesday, 24 July 2001 meeting. We feel this is reasonable as the work plan activities and design has been discussed with you at several previous meeting.

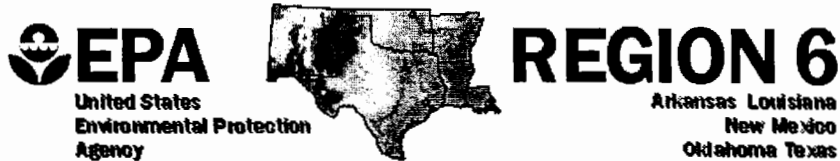
4. If you have any questions, please contact me at 915-568-7979. I have taken the liberty to include a hard copy of the approved FY 01 Installation Action Plan (which is stuck loose in the back of reference 1.a above).

Sincerely,

A handwritten signature in black ink, appearing to read "David Dodge". The signature is fluid and cursive, with a large initial "D" and a long, sweeping tail.

David Dodge
Engineering and Environment, Inc.
IRP Project Manager
Directorate of Environment
Fort Bliss, Texas

Cf: Robert Lenhart, COTR
Steve Petersen, Malcolm Pirnie



Multimedia Planning and Permitting Division

Risk Assessment Program

Region 6
Home
EPA Home
Index
What's
New
Comments
Search

OVERVIEW

The Region 6 RCRA Risk Assessment Team provides technical assistance in the areas of toxicological document review, risk calculation, risk assessment training and guidance on state-of-the-art science.

1. The Region 6 Multimedia Planning and Permitting Division is developing a new Risk Management Strategy for the Corrective Action Program that is designed to expedite cleanups at facilities where releases have occurred through a risk-based priority screen.
2. Developing a risk-based approach to delisting of Subtitle C hazardous waste

A tiered approach to risk-based decision-making for the delisting of Subtitle C waste is under development. The tiered process begins by comparing waste constituent concentrations against health-based screening levels using conservative waste characterization and exposure assumptions. The second tier uses waste volume-specific data to calculate cumulative risk to multiple exposure pathways, providing a more accurate risk analysis of the petitioned waste. This risk-based approach combines state-of-the-art fate and transport modeling (EPACMTP groundwater model) and standardized exposure assessment methods in a spreadsheet format to simplify the risk assessment process.

For information on the risk-based process, please contact:

*Dr. Michael Morton
OK/TX RCRA Permits Section (6PD-O)
Multimedia Planning and Permitting Division
1445 Ross Avenue
Dallas, Texas 75202
(214)665-7393 or E-Mail Address: [E-Mail](mailto:EMail):*

3. Developing human health and ecological combustion risk assessment guidance

The Region 6 Risk Assessment Team is updating guidance for assessing the risk of combustion emissions to human health and the

environment. There is sufficient guidance available regarding the performance of direct inhalation risk assessments, indirect risk assessments are newer and more complex. As a result, the new guidance document for human health risk assessments describes the evaluation of direct inhalation risk, but primarily focuses on the procedures used to estimate risk resulting from indirect pathways. The new guidance is titled Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities and is available for review and download. Also available is an additional document entitled, Region 6 Risk Assessment Addendum - Draft Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities which provides site specific risk management guidance to combustion facilities located in Region 6. Detailed guidance on the methods and procedures to complete screening level combustion risk assessment for ecological receptors has not been presented prior to the development of the new ecological risk assessment guidance. The new ecological risk assessment is titled Screening Level Ecological Assessment Protocol for Hazardous Waste Combustion Facilities.

For information on the above document, please contact:

Jeff Yurk
OK/TX RCRA Permits Section (6PD-O)
Multimedia Planning and Permitting Division
1445 Ross Avenue
Dallas, Texas 75202
(214)665-8309 or E-Mail Address: E-Mail:

4. Additional Studies and Reports Related to Combustion Risk Assessment

- o Model Parameter Sensitivity Analysis (Sensitivity Analysis of ISCST3 input parameters)
 - Volume 1 Results
 - Volume 2 Appendices
 - Appendix A - Table of Absolute and Normalized Element Study Results:
 - Part1
 - Part2
 - Appendix B - Printouts of ISCST3 Model Inputs
- o Suggestions for Auditing Assessment Air Modeling Studies following the 1998 U.S. Office of Solid Waste Human Health and Ecological Risk Assessment Protocols. (pdf format)
- o Mercury Fate and Transport: Example Calculation (pdf format)

Due to comments received by U.S. EPA Region 6 concerning the difficulty in interpreting information presented in its External Peer Review Draft of the Human Health Risk Assessment Protocol for Hazardous Waste Burning Combustion Facilities (U.S. EPA 1998), U.S. EPA Region 6 has developed the following example calculation which is intended to illustrate mercury speciation, fate and transport starting from air model outputs through the risk calculation to the consumption of fish exposure pathway in the adult subsistence fisher exposure scenario.

5. Human Health Medium Specific Screening Levels

The revised media specific human health screening values for evaluating contaminated hazardous waste sites are now available on the Internet. The Regional tables are frequently requested and provide information on levels of contamination in the soil and/or water that may be of concern for human health. Two files can be downloaded, a WordPerfect file that explains the equations and equations used to derive the screening values, and an Excel file that provides the screening values, the toxicity factors,

physical-chemical data, and the pathway specific values. All of the text or screening values can either be viewed or downloaded.

For information on the above document, please contact :

Cheryl Overstreet
NM/Federal Facilities Section
Base Closure Team (6PD-NB)
1445 Ross Avenue
Dallas, Texas 75202-2733

214-665-6643 or E-Mail:

6. Performed a screening combustion risk assessment in Midlothian, Texas

o **Cumulative Risk Assessment**

The U.S. Environmental Protection Agency (EPA) also conducted a multi-source, multi-pathway Midlothian Texas Assessment that estimates the cancer risk and potential non-cancer health effects associated with emissions from Chromalloy Steel Company, North Texas Cement Company, Texas Industries, and Holnam Texas, L.P.

o **Animal Health Survey (Midlothian, Texas)**

This document results from a voluntary survey of ranchers in the vicinity of Midlothian, Texas. A study area was compared to two control areas to determine if scientifically valid evidence exists that would indicate an unusual increase in adverse health problems for locally raised animals.

o For a copy of the Animal Health Survey, please contact:

Stan Burger
OK/TX RCRA Permits Section (6PD-A)
Multimedia Planning and Permitting Division
1445 Ross Avenue
Dallas, Texas 75202
(214)665-7432 or E-Mail Address: E-Mail:

CONTACT/TELEPHONE NUMBER

Formal requests for support from RCRA Risk Assessment Team may be submitted to:

Mr. William Gallagher, Chief
OK/TX RCRA Permits Section, (6PD-O)
Multimedia Planning and Permitting Division
1445 Ross Avenue
Dallas, TX 75202
(214) 665-6775

For additional information visit EPA's Hazardous Waste Home Page at <http://www.epa.gov/epaoswer/hazwaste/index.htm>

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URL: http://www.epa.gov/earth1r6/6pd/rcra_c/pd-o/midlo.htm

Last Updated: January 3, 2000 - [Metadata Record](#)

Number of Accesses since February 18, 1997: **04320**

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration										Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Risk-Based Screening Levels										
			Soil (ingestion, inhalation, with and without dermal exposure routes)					Ambient Air (Residential Scenario)		Tap Water (Residential Scenario: Ingestion & Inhalation)			
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal							
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg					

Acetaldehyde	75-07-0		9.3E+00	C	9.7E+00	C	2.1E+01	C	2.3E+01	C	8.7E-01	C	1.5E+00	C	
Acetochlor	34256-82-1		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	
Acetone	67-64-1		1.5E+03	N	1.6E+03	N	5.8E+03	N	6.2E+03	N	3.7E+02	N	6.1E+02	N	8.0E-01
Acetonitrile	75-05-8		6.2E+02	N	6.2E+02	N	2.0E+03	N	2.0E+03	N	6.2E+01	N			
Acetophenone	98-86-2		5.0E-01	N	5.0E-01	N	1.6E+00	N	1.6E+00	N	2.1E-02	N	4.2E-02	N	
Acrolein	107-02-8		1.0E-01	N	1.0E-01	N	3.4E-01	N	3.4E-01	N	2.1E-02	N	4.2E-02	N	
Acrylamide	79-06-1		1.1E-01	C	1.4E-01	C	3.8E-01	C	1.3E+00	C	1.5E-03	C	1.5E-02	C	
Acrylic acid	79-10-7		2.9E+04	N	3.7E+04	N	1.0E+05	max	1.0E+05	max	1.0E+00	N	1.8E+04	N	
Acrylonitrile	107-13-1		2.0E-01	C	2.1E-01	C	4.6E-01	C	5.2E-01	C	2.8E-02	C	3.9E-02	C	
Alachlor	15972-60-8	2.0E+00	6.0E+00	C	8.0E+00	C	2.2E+01	C	7.1E+01	C	8.4E-02	C	8.4E-01	C	
Alar	1596-84-5		9.1E+03	N	1.2E+04	N	9.3E+04	N	1.0E+05	max	5.5E+02	N	5.5E+03	N	
Aldicarb	116-06-3	7.0E+00	6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	
Aldicarb sulfone	1646-88-4	7.0E+00	6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	
Aldrin	309-00-2		2.8E-02	C	3.8E-02	C	1.0E-01	C	3.4E-01	C	3.9E-04	C	4.0E-03	C	5.9E+02
Allyl chloride	107-05-1		3.0E+03	N	3.9E+03	N	3.1E+04	N	9.7E+04	N	1.0E+00	N	1.8E+03	N	
Aluminum	7429-90-5		7.8E+04	N	7.8E+04	N	1.0E+05	max	1.0E+05	max			3.7E+04	N	
Amdro	67485-29-4		1.8E+01	N	2.3E+01	N	1.9E+02	N	6.1E+02	N	1.1E+00	N	1.1E+01	N	
4-Aminopyridine	504-24-5		1.2E+00	N	1.6E+00	N	1.2E+01	N	4.1E+01	N	7.3E-02	N	7.3E-01	N	
Ammonia	7664-41-7										1.0E+02	N			
Aniline	62-53-3		8.5E+01	C	1.1E+02	C	3.1E+02	C	1.0E+03	C	1.0E+00	N	1.2E+01	C	
Antimony and compounds	7440-36-0	6.0E+00	3.1E+01	N	3.1E+01	N	8.2E+02	N	8.2E+02	N			1.5E+01	N	3.0E-01
Antimony pentoxide	1314-60-9		3.9E+01	N	3.9E+01	N	1.0E+03	N	1.0E+03	N			1.8E+01	N	
Antimony tetroxide	1332-81-6		3.1E+01	N	3.1E+01	N	8.2E+02	N	8.2E+02	N			1.5E+01	N	
Antimony trioxide	1309-64-4		3.1E+01	N	3.1E+01	N	8.2E+02	N	8.2E+02	N			1.5E+01	N	
Arsenic (noncancer endpoint)	7440-38-2	5.0E+01	2.2E+01	N	2.3E+01	N	3.6E+02	N	6.1E+02	N					
Arsenic (cancer endpoint)	7440-38-2		3.9E-01	C	4.3E-01	C	2.3E+00	C	3.8E+00	C	4.5E-04	C	4.5E-02	C	1.0E+00

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			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal	ug/m3	ug/l	mg/kg					
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg							

Arsine	7784-42-1										5.2E-02	N			
Assure	76578-12-6		5.5E+02	N	7.0E+02	N	5.6E+03	N	1.8E+04	N	3.3E+01	N	3.3E+02	N	
Atrazine	1912-24-9	3.0E+00	2.2E+00	C	2.9E+00	C	7.9E+00	C	2.6E+01	C	3.1E-02	C	3.0E-01	C	
Azobenzene	103-33-3		4.4E+00	C	5.8E+00	C	1.6E+01	C	5.2E+01	C	6.2E-02	C	6.1E-01	C	
Barium and compounds	7440-39-3	2.0E+03	5.4E+03	N	5.4E+03	N	1.0E+05	max	1.0E+05	max	5.2E-01	N	2.6E+03	N	8.2E+01
Baygon	114-26-1		2.4E+02	N	3.1E+02	N	2.5E+03	N	8.2E+03	N	1.5E+01	N	1.5E+02	N	
Baythroid	68359-37-5		1.5E+03	N	2.0E+03	N	1.6E+04	N	5.1E+04	N	9.1E+01	N	9.1E+02	N	
Bentazon	25057-89-0		1.8E+03	N	2.3E+03	N	1.9E+04	N	6.1E+04	N	1.1E+02	N	1.1E+03	N	
Benzaldehyde	100-52-7		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	3.7E+02	N	3.7E+03	N	
Benzene	71-43-2	5.0E+00	6.7E-01	C	6.8E-01	C	1.4E+00	C	1.5E+00	C	2.5E-01	C	4.2E-01	C	2.0E-03
Benzidine	92-87-5		2.1E-03	C	2.8E-03	C	7.6E-03	C	2.5E-02	C	2.9E-05	C	2.9E-04	C	
Benzoic acid	65-85-0		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	1.5E+04	N	1.5E+05	N	2.0E+01
Benzyl alcohol	100-51-6		1.8E+04	N	2.3E+04	N	1.0E+05	max	1.0E+05	max	1.1E+03	N	1.1E+04	N	
Benzyl chloride	100-44-7		8.3E-01	C	8.9E-01	C	2.0E+00	C	2.3E+00	C	4.0E-02	C	6.6E-02	C	
Beryllium and compounds	7440-41-7	4.0E+00	1.5E+02	N	1.5E+02	N	2.2E+03	C	2.2E+03	C	8.0E-04	C	7.3E+01	N	3.0E+00
1,1-Biphenyl	92-52-4		2.5E+03	N	3.0E+03	N	1.8E+04	N	3.0E+04	N	1.8E+02	N	3.0E+02	N	
Bis(2-chloroethyl)ether	111-44-4		1.9E-01	C	2.1E-01	C	4.9E-01	C	6.2E-01	C	5.8E-03	C	9.8E-03	C	2.0E-05
Bis(2-chloroisopropyl)ether	39638-32-9		2.6E+00	C	2.9E+00	C	6.6E+00	C	8.1E+00	C	1.9E-01	C	2.7E-01	C	
Bis(chloromethyl)ether	542-88-1		1.9E-04	C	1.9E-04	C	4.2E-04	C	4.4E-04	C	3.1E-05	C	5.2E-05	C	
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	6.0E+00	3.5E+01	C	4.6E+01	C	1.2E+02	C	4.1E+02	C	4.8E-01	C	4.8E+00	C	
Boron	7440-42-8		5.5E+03	N	7.0E+03	N	5.6E+04	N	1.0E+05	max	2.1E+01	N	3.3E+03	N	
Boron trifluoride	7637-07-2		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	7.3E-01	N			
Bromobenzene	108-86-1		2.8E+01	N	2.8E+01	N	9.2E+01	N	9.3E+01	N	1.0E+01	N	2.0E+01	N	
Bromodichloromethane	75-27-4		9.9E-01	C	1.0E+00	C	2.2E+00	C	2.4E+00	C	1.1E-01	C	1.8E-01	C	3.0E-02
Bromoform	75-25-2		6.1E+01	C	8.1E+01	C	2.2E+02	C	7.2E+02	C	1.7E+00	C	8.5E+00	C	4.0E-02

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			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal								
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg						

(tribromomethane)															
Bromomethane	74-83-9		3.9E+00	N	3.9E+00	N	1.3E+01	N	1.3E+01	N	5.2E+00	N	8.7E+00	N	1.0E-02
Bromophos	2104-96-3		3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N	1.8E+01	N	1.8E+02	N	
Bromoxynil	1689-84-5		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	
1,3-Butadiene	106-99-0		6.5E-03	C	6.5E-03	C	1.4E-02	C	1.4E-02	C	6.9E-03	C	1.1E-02	C	
1-Butanol	71-36-3		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	3.7E+02	N	3.7E+03	N	9.0E-01
Butylate	2008-41-5		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max	1.8E+02	N	1.8E+03	N	
n-Butylbenzene	104-51-8		1.4E+02	N	1.4E+02	N	2.4E+02	sat	2.4E+02	sat	3.7E+01	N	6.1E+01	N	
sec-Butylbenzene	135-9-88		1.1E+02	N	1.1E+02	N	2.2E+02	sat	2.2E+02	sat	3.7E+01	N	6.1E+01	N	
tert-Butylbenzene	104-5-18		1.3E+02	N	1.3E+02	N	3.9E+02	sat	3.9E+02	sat	3.7E+01	N	6.1E+01	N	
Butyl benzyl phthalate	85-68-7		2.4E+02	sat	2.4E+02	sat	2.4E+02	sat	2.4E+02	sat	7.3E+02	N	7.3E+03	N	8.1E+02
Cadmium and compounds	7440-43-9	5.0E+00	3.9E+01	N	3.9E+01	N	1.0E+03	N	1.0E+03	N	1.1E-03	C	1.8E+01	N	4.0E-01
Caprolactam	105-60-2		3.0E+04	N	3.9E+04	N	1.0E+05	max	1.0E+05	max	1.8E+03	N	1.8E+04	N	
Captan	133-06-2		1.4E+02	C	1.8E+02	C	5.0E+02	C	1.6E+03	C	1.9E+00	C	1.9E+01	C	
Carbaryl	63-25-2		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	4.0E+02	N	3.7E+03	N	
Carbazole	86-74-8		2.4E+01	C	3.2E+01	C	8.7E+01	C	2.9E+02	C	3.4E-01	C	3.4E+00	C	3.0E-02
Carbofuran	1563-66-2	4.0E+01	3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N	1.8E+01	N	1.8E+02	N	
Carbon disulfide	75-15-0		3.5E+02	N	3.6E+02	N	7.2E+02	sat	7.2E+02	sat	7.3E+02	N	1.0E+03	N	2.0E+00
Carbon tetrachloride	56-23-5	5.0E+00	2.4E-01	C	2.4E-01	C	5.2E-01	C	5.3E-01	C	1.3E-01	C	1.7E-01	C	3.0E-03
Carbosulfan	55285-14-8		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
Chloral	302-17-0		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
Chloranil	118-75-2		1.2E+00	C	1.6E+00	C	4.3E+00	C	1.4E+01	C	1.7E-02	C	1.7E-01	C	
Chlordane	57-74-9	2.0E+00	1.6E+00	C	1.8E+00	C	8.6E+00	C	1.6E+01	C	1.9E-02	C	1.9E-01	C	5.0E-01
Chlorine	7782-50-5		7.8E+03	N	7.8E+03	N	1.0E+05	max	1.0E+05	max			3.7E+03	N	
Chlorine dioxide	10049-04-4										2.1E-01	N			
Chloroacetic acid	79-11-8		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
4-Chloroaniline	106-47-8		2.4E+02	N	3.1E+02	N	2.5E+03	N	8.2E+03	N	1.5E+01	N	1.5E+02	N	3.0E-02

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Risk-Based Screening Levels											
			Soil (ingestion, inhalation, with and without dermal exposure routes)					Ambient Air (Residential Scenario)		Tap Water (Residential Scenario: Ingestion & Inhalation)				
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal								
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg						

Chlorobenzene	108-90-7		5.4E+01	N	5.5E+01	N	1.8E+02	N	1.8E+02	N	2.1E+01	N	3.9E+01	N	7.0E-02
Chlorobenzilate	510-15-6		1.8E+00	C	2.4E+00	C	6.5E+00	C	2.1E+01	C	2.5E-02	C	2.5E-01	C	
p-Chlorobenzoic acid	74-11-3		1.2E+04	N	1.6E+04	N	1.0E+05	max	1.0E+05	max	7.3E+02	N	7.3E+03	N	
4-Chlorobenzotrifluoride	98-56-6		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	
2-Chloro-1,3-butadiene	126-99-8		3.6E+00	N	3.6E+00	N	1.2E+01	N	1.2E+01	N	7.3E+00	N	1.4E+01	N	
1-Chlorobutane	109-69-3		4.8E+02	sat	4.8E+02	sat	4.8E+02	sat	4.8E+02	sat	1.5E+03	N	2.4E+03	N	
1-Chloro-1,1-difluoroethane	75-68-3		3.4E+02	sat	3.4E+02	sat	3.4E+02	sat	3.4E+02	sat	5.2E+04	N	8.7E+04	N	
Chlorodifluoromethane	75-45-6		3.4E+02	sat	3.4E+02	sat	3.4E+02	sat	3.4E+02	sat	5.1E+04	N	8.5E+04	N	
2-Chloroethyl vinyl ether	110-75-8														
Chloroform	67-66-3		2.4E-01	C	2.4E-01	C	5.2E-01	C	5.2E-01	C	8.4E-02	C	1.6E-01	C	3.0E-02
Chloromethane	74-87-3		1.2E+00	C	1.2E+00	C	2.6E+00	C	2.7E+00	C	1.1E+00	C	1.5E+00	C	
4-Chloro-2-methylaniline	95-69-2		8.3E-01	C	1.1E+00	C	3.0E+00	C	9.9E+00	C	1.2E-02	C	1.2E-01	C	
beta-Chloronaphthalene	91-58-7		3.3E+03	N	3.9E+03	N	2.0E+04	N	2.7E+04	N	2.9E+02	N	4.9E+02	N	
o-Chloronitrobenzene	88-73-3		1.3E+01	C	1.5E+01	C	3.7E+01	C	5.9E+01	C	2.7E-01	C	4.5E-01	C	
p-Chloronitrobenzene	100-00-5		1.7E+01	C	2.0E+01	C	4.9E+01	C	7.6E+01	C	3.7E-01	C	6.2E-01	C	
2-Chlorophenol	95-57-8		6.1E+01	N	6.4E+01	N	2.3E+02	N	2.4E+02	N	1.8E+01	N	3.0E+01	N	2.0E-01
2-Chloropropane	75-29-6		1.7E+02	N	1.7E+02	N	5.8E+02	N	6.0E+02	N	1.0E+02	N	1.7E+02	N	
o-Chlorotoluene	95-49-8		1.5E+02	N	1.6E+02	N	5.1E+02	sat	5.1E+02	sat	7.3E+01	N	1.2E+02	N	
Chlorpyrifos	2921-88-2		1.8E+02	N	2.3E+02	N	1.9E+03	N	6.1E+03	N	1.1E+01	N	1.1E+02	N	
Chlorpyrifos-methyl	5598-13-0		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
Chromium III	16065-83-1	1.0E+02	1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max			5.5E+04	N	
Total Chromium (1/6 ratio Cr VI/Cr III)	18540-29-9	1.0E+02	2.1E+02	C	2.1E+02	C	4.5E+02	C	4.5E+02	C	1.6E-04	C			2.0E+00
Chromium VI	7440-47-3	1.0E+02	3.0E+01	C	3.0E+01	C	6.4E+01	C	6.4E+01	C	2.3E-05	C	1.8E+02	N	2.0E+00
Cobalt	7440-48-4		3.4E+03	N	3.4E+03	N	2.9E+04	N	2.9E+04	N	2.1E-02	N	2.2E+03	N	
Coke Oven Emissions	8007-45-2				4.1E+03	C			8.7E+03	C	3.1E-03	C			

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											
			Risk-Based Screening Levels											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Soil (ingestion, inhalation, with and without dermal exposure routes)						Ambient Air (Residential Scenario)		Tap Water (Residential Scenario: Ingestion & Inhalation)			
			Residential		Residential w/o dermal		Industrial		Industrial w/o dermal		ug/m3		ug/l	
		ug/l	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg			

Copper and compounds	7440-50-8	1.3E+03	2.9E+03	N	2.9E+03	N	7.6E+04	N	7.6E+04	N			1.4E+03	N	
Crotonaldehyde	123-73-9		5.3E-03	C	5.3E-03	C	1.1E-02	C	1.1E-02	C	3.5E-03	C	5.9E-03	C	
Cumene (isopropylbenzene)	98-82-8		1.6E+02	N	1.6E+02	N	5.2E+02	N	5.2E+02	N	4.0E+02	N	6.6E+02	N	
Cyanazine	21725-46-2		5.8E-01	C	7.6E-01	C	2.1E+00	C	6.8E+00	C	8.0E-03	C	8.0E-02	C	
Cyanides	n/a														
Barium cyanide	542-62-1		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max			3.7E+03	N	
Calcium cyanide	592-01-8		2.4E+03	N	3.1E+03	N	2.5E+04	N	8.2E+04	N			1.5E+03	N	
Copper cyanide	544-92-3		3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N			1.8E+02	N	
Cyanogen	460-19-5		2.4E+03	N	3.1E+03	N	2.5E+04	N	8.2E+04	N					
Cyanogen bromide	506-68-3		5.5E+03	N	7.0E+03	N	5.6E+04	N	1.0E+05	max			3.3E+03	N	
Cyanogen chloride	506-77-4		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max			1.8E+03	N	
Free cyanide	57-12-5	2.0E+02	1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N			7.3E+02	N	2.0E+00
Hydrogen cyanide	74-90-8		1.1E+01	N	1.1E+01	N	3.5E+01	N	3.5E+01	N	3.1E+00	N	6.2E+00	N	
Potassium cyanide	151-50-8		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max			1.8E+03	N	
Potassium silver cyanide	506-61-6		1.2E+04	N	1.6E+04	N	1.0E+05	max	1.0E+05	max			7.3E+03	N	
Silver cyanide	506-64-9		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max			3.7E+03	N	
Sodium cyanide	143-33-9		2.4E+03	N	3.1E+03	N	2.5E+04	N	8.2E+04	N			1.5E+03	N	
Zinc cyanide	557-21-1		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max			1.8E+03	N	
Cyclohexanone	108-94-1		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	1.8E+04	N	1.8E+05	N	
Cyhalothrin/Karate	68085-85-8		3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N	1.8E+01	N	1.8E+02	N	
Cypermethrin	52315-07-8		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
Dacthal	1861-32-1		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
Dalapon	75-99-0	2.0E+02	1.8E+03	N	2.3E+03	N	1.9E+04	N	6.1E+04	N	1.1E+02	N	1.1E+03	N	
DDD	72-54-8		2.4E+00	C	2.7E+00	C	1.4E+01	C	2.4E+01	C	2.8E-02	C	2.8E-01	C	8.0E-01
DDE	72-55-9		1.7E+00	C	1.9E+00	C	1.0E+01	C	1.7E+01	C	2.0E-02	C	2.0E-01	C	3.0E+00
DDT	50-29-3		1.7E+00	C	1.9E+00	C	1.0E+01	C	1.7E+01	C	2.0E-02	C	2.0E-01	C	2.0E+00

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration										Soil Screening Level- Transfers from Soil to: Ground water (DAF=1) mg/kg	
			Risk-Based Screening Levels											
			Soil (ingestion, inhalation, with and without dermal exposure routes)					Ambient Air (Residential Scenario)		Tap Water (Residential Scenario: Ingestion & Inhalation)				
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal								
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l					mg/kg		

Diazinon	333-41-5		5.5E+01	N	7.0E+01	N	5.6E+02	N	1.8E+03	N	3.3E+00	N	3.3E+01	N	
Dibenzofuran	132-64-9		2.3E+02	N	2.9E+02	N	2.1E+03	N	5.1E+03	N	1.5E+01	N	2.4E+01	N	
1,4-Dibromobenzene	106-37-6		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
Dibromochloromethane	124-48-1		9.7E-01	C	1.0E+00	C	2.2E+00	C	2.4E+00	C	8.0E-02	C	1.3E-01	C	2.0E-02
1,2-Dibromo-3-chloropropane	96-12-8		3.4E-01	C	4.5E-01	C	1.2E+00	C	4.0E+00	C	2.1E-01	N	4.8E-02	C	
1,2-Dibromoethane	106-93-4		5.3E-03	C	6.9E-03	C	1.8E-02	C	4.8E-02	C	8.7E-03	C	7.6E-04	C	
Dibutyl phthalate	84-74-2		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	3.7E+02	N	3.7E+03	N	2.7E+02
Dicamba	1918-00-9		1.8E+03	N	2.3E+03	N	1.9E+04	N	6.1E+04	N	1.1E+02	N	1.1E+03	N	
1,2-Dichlorobenzene	95-50-1		3.7E+02	sat	3.7E+02	sat	3.7E+02	sat	3.7E+02	sat	2.1E+02	N	3.7E+02	N	9.0E-01
1,3-Dichlorobenzene	541-73-1	6.0E+02	4.1E+01	N	4.1E+01	N	1.4E+02	N	1.4E+02	N	8.4E+00	N	1.7E+01	N	
1,4-Dichlorobenzene	106-46-7	7.5E+01	3.1E+00	C	3.2E+00	C	7.0E+00	C	7.5E+00	C	2.8E-01	C	4.7E-01	C	1.0E-01
3,3-Dichlorobenzidine	91-94-1		1.1E+00	C	1.4E+00	C	3.9E+00	C	1.3E+01	C	1.5E-02	C	1.5E-01	C	3.0E-04
1,4-Dichloro-2-butene	764-41-0		7.6E-03	C	7.9E-03	C	1.7E-02	C	1.8E-02	C	7.2E-04	C	1.2E-03	C	
Dichlorodifluoromethane	75-71-8		9.4E+01	N	9.4E+01	N	3.1E+02	N	3.1E+02	N	2.1E+02	N	3.9E+02	N	
1,1-Dichloroethane	75-34-3		5.8E+02	N	5.9E+02	N	2.0E+03	N	2.1E+03	N	5.2E+02	N	8.1E+02	N	1.0E+00
1,2-Dichloroethane (EDC)	107-06-2	5.0E+00	3.4E-01	C	3.5E-01	C	7.5E-01	C	7.7E-01	C	7.4E-02	C	1.2E-01	C	1.0E-03
1,1-Dichloroethylene	75-35-4	7.0E+00	5.3E-02	C	5.4E-02	C	1.2E-01	C	1.2E-01	C	3.8E-02	C	4.6E-02	C	3.0E-03
1,2-Dichloroethylene (cis)	156-59-2	7.0E+01	4.2E+01	N	4.3E+01	N	1.5E+02	N	1.5E+02	N	3.7E+01	N	6.1E+01	N	2.0E-02
1,2-Dichloroethylene (trans)	156-60-5	1.0E+02	6.3E+01	N	6.3E+01	N	2.1E+02	N	2.1E+02	N	7.3E+01	N	1.2E+02	N	3.0E-02
2,4-Dichlorophenol	120-83-2		1.8E+02	N	2.3E+02	N	1.9E+03	N	6.1E+03	N	1.1E+01	N	1.1E+02	N	5.0E-02
4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	94-82-6	7.0E+01	4.9E+02	N	6.3E+02	N	5.0E+03	N	1.6E+04	N	2.9E+01	N	2.9E+02	N	
2,4-Dichlorophenoxyacetic Acid (2,4-D)	94-75-7		6.8E+02	N	7.8E+02	N	9.6E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Risk-Based Screening Levels											
			Soil (ingestion, inhalation, with and without dermal exposure routes)						Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)				
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal	ug/m3	ug/l	mg/kg					
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg							

1,2-Dichloropropane	78-87-5	5.0E+00	3.5E-01	C	3.5E-01	C	7.5E-01	C	7.7E-01	C	9.9E-02	C	1.6E-01	C	1.0E-03
1,3-Dichloropropene	542-75-6		8.2E-02	C	8.2E-02	C	1.8E-01	C	1.8E-01	C	5.2E-02	C	8.1E-02	C	2.0E-04
2,3-Dichloropropanol	616-23-9		1.8E+02	N	2.3E+02	N	1.9E+03	N	6.1E+03	N	1.1E+01	N	1.1E+02	N	
Dichlorvos	62-73-7		1.7E+00	C	2.2E+00	C	6.0E+00	C	2.0E+01	C	2.3E-02	C	2.3E-01	C	
Dicofol	115-32-2		1.1E+00	C	1.5E+00	C	4.0E+00	C	1.3E+01	C	1.5E-02	C	1.5E-01	C	
Dicyclopentadiene	77-73-6		5.5E-01	N	5.5E-01	N	1.8E+00	N	1.8E+00	N	2.1E-01	N	4.2E-01	N	
Dieldrin	60-57-1		3.0E-02	C	4.0E-02	C	1.1E-01	C	3.6E-01	C	4.2E-04	C	4.2E-03	C	2.0E-04
Diethylene glycol, monobutyl ether	112-34-5		3.5E+02	N	4.5E+02	N	3.6E+03	N	1.2E+04	N	2.1E+01	N	2.1E+02	N	
Diethylene glycol, monoethyl ether	111-90-0		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	7.3E+03	N	7.3E+04	N	
Di(2-ethylhexyl)adipate	103-23-1	4.0E+02	4.0E+02	C	5.3E+02	C	1.5E+03	C	4.8E+03	C	5.6E+00	C	5.6E+01	C	
Diethyl phthalate	84-66-2		4.9E+04	N	6.3E+04	N	1.0E+05	max	1.0E+05	max	2.9E+03	N	2.9E+04	N	
Diethylstilbestrol	56-53-1		1.0E-04	C	1.4E-04	C	3.7E-04	C	1.2E-03	C	1.4E-06	C	1.4E-05	C	
Difenzoquat (Avenge)	43222-48-6		4.9E+03	N	6.3E+03	N	5.0E+04	N	1.0E+05	max	2.9E+02	N	2.9E+03	N	
1,1-Difluoroethane	75-37-6		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	4.2E+04	N	6.9E+04	N	
Diisopropyl methylphosphonate	1445-75-6		4.9E+03	N	6.3E+03	N	5.0E+04	N	1.0E+05	max	2.9E+02	N	2.9E+03	N	
3,3'-Dimethoxybenzidine	119-90-4		3.5E+01	C	4.6E+01	C	1.2E+02	C	4.1E+02	C	4.8E-01	C	4.8E+00	C	
Dimethylamine	124-40-3		6.4E-02	N	6.7E-02	N	2.4E-01	N	2.5E-01	N	2.1E-02	N	3.5E-02	N	
N-N-Dimethylaniline	121-69-7		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
2,4-Dimethylaniline	95-68-1		6.4E-01	C	8.5E-01	C	2.3E+00	C	7.6E+00	C	9.0E-03	C	9.0E-02	C	
2,4-Dimethylaniline hydrochloride	21436-96-4		8.3E-01	C	1.1E+00	C	3.0E+00	C	9.9E+00	C	1.2E-02	C	1.2E-01	C	
3,3'-Dimethylbenzidine	119-93-7		5.3E-02	C	7.0E-02	C	1.9E-01	C	6.2E-01	C	7.3E-04	C	7.3E-03	C	
1,1-Dimethylhydrazine	57-14-7		1.9E-01	C	2.5E-01	C	6.7E-01	C	2.2E+00	C	1.9E-03	C	2.6E-02	C	
1,2-Dimethylhydrazine	540-73-8		1.3E-02	C	1.7E-02	C	4.7E-02	C	1.5E-01	C	1.8E-04	C	1.8E-03	C	

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											
			Risk-Based Screening Levels											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Soil (ingestion, inhalation, with and without dermal exposure routes)						Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)				
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal								
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg						

Dimethylphenethylamine	122-09-8		6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	
2,4-Dimethylphenol	105-67-9		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	4.0E-01
2,6-Dimethylphenol	576-26-1		3.6E+01	N	4.7E+01	N	3.7E+02	N	1.2E+03	N	2.2E+00	N	2.2E+01	N	
3,4-Dimethylphenol	95-65-8		6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	
Dimethyl phthalate	131-11-3		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	3.7E+04	N	3.7E+05	N	
4,6-Dinitro-o-cyclohexyl phenol	131-89-5		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
1,2-Dinitrobenzene	528-29-0		2.4E+01	N	3.1E+01	N	2.5E+02	N	8.2E+02	N	1.5E+00	N	1.5E+01	N	
1,3-Dinitrobenzene	99-65-0		6.1E+00	N	7.8E+00	N	6.2E+01	N	2.0E+02	N	3.7E-01	N	3.7E+00	N	
1,4-Dinitrobenzene	100-25-4		2.4E+01	N	3.1E+01	N	2.5E+02	N	8.2E+02	N	1.5E+00	N	1.5E+01	N	
2,4-Dinitrophenol	51-28-5		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	1.0E-02
Dinitrotoluene mixture	25321-14-6		7.1E-01	C	9.4E-01	C	2.6E+00	C	8.4E+00	C	9.9E-03	C	9.9E-02	C	4.0E-05
2,4-Dinitrotoluene	121-14-2		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	4.0E-05
2,6-Dinitrotoluene	606-20-2		6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	3.0E-05
Dinoseb	88-85-7	7.0E+00	6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	
di-n-Octyl phthalate	117-84-0		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	1.0E+04
1,4-Dioxane	123-91-1		4.4E+01	C	5.8E+01	C	1.6E+02	C	5.2E+02	C	6.1E-01	C	6.1E+00	C	
Dioxin (2,3,7,8-TCDD)	1746-01-6		3.9E-06	C	4.3E-06	C	2.3E-05	C	3.8E-05	C	4.5E-08	C	4.5E-07	C	
Diphenylamine	122-39-4		1.5E+03	N	2.0E+03	N	1.6E+04	N	5.1E+04	N	9.1E+01	N	9.1E+02	N	
1,2-Diphenylhydrazine	122-66-7		6.0E-01	C	8.0E-01	C	2.2E+00	C	7.2E+00	C	8.7E-03	C	8.4E-02	C	
Diphenyl sulfone	127-63-9		5.5E+02	N	7.0E+02	N	5.6E+03	N	1.8E+04	N	3.3E+01	N	3.3E+02	N	
Diquat	85-00-7	2.0E+01	1.3E+02	N	1.7E+02	N	1.4E+03	N	4.5E+03	N	8.0E+00	N	8.0E+01	N	
Disulfoton	298-04-4		2.4E+00	N	3.1E+00	N	2.5E+01	N	8.2E+01	N	1.5E-01	N	1.5E+00	N	
1,4-Dithiane	505-29-3		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
Diuron	330-54-1		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
Endosulfan	115-29-7		3.6E+02	N	4.7E+02	N	3.7E+03	N	1.2E+04	N	2.2E+01	N	2.2E+02	N	9.0E-01
Endothall	145-73-3	1.0E+02	1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											
			Risk-Based Screening Levels											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Soil (ingestion, inhalation, with and without dermal exposure routes)								Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)		
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal	ug/m3	ug/l	mg/kg					
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg							

Endrin	72-20-8	2.0E+00	1.8E+01	N	2.3E+01	N	1.9E+02	N	6.1E+02	N	1.1E+00	N	1.1E+01	N	5.0E-02
Epichlorohydrin	106-89-8		7.5E+00	N	7.6E+00	N	2.5E+01	N	2.6E+01	N	1.0E+00	N	2.0E+00	N	
Ethion	563-12-2		3.0E+01	N	3.9E+01	N	3.1E+02	N	1.0E+03	N	1.8E+00	N	1.8E+01	N	
2-Ethoxyethanol	110-80-5		2.4E+04	N	3.1E+04	N	1.0E+05	max	1.0E+05	max	2.1E+02	N	1.5E+04	N	
2-Ethoxyethanol acetate	111-15-9		1.8E+04	N	2.3E+04	N	1.0E+05	max	1.0E+05	max	1.1E+03	N	1.1E+04	N	
Ethyl acetate	141-78-6		1.7E+04	N	1.9E+04	N	3.7E+04	sat	3.7E+04	sat	3.3E+03	N	5.5E+03	N	
Ethylbenzene	100-41-4	7.0E+02	2.3E+02	sat	2.3E+02	sat	2.3E+02	sat	2.3E+02	sat	1.1E+03	N	1.3E+03	N	7.0E-01
Ethyl chloride	75-00-3		1.6E+03	sat	1.6E+03	sat	1.6E+03	sat	1.6E+03	sat	1.0E+04	N	8.6E+03	N	
Ethylene diamine	107-15-3		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	
Ethylene glycol	107-21-1		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	7.3E+03	N	7.3E+04	N	
Ethylene glycol, monobutyl ether	111-76-2		3.5E+02	N	4.5E+02	N	3.6E+03	N	1.2E+04	N	2.1E+01	N	2.1E+02	N	
Ethylene oxide	75-21-8		1.3E-01	C	1.4E-01	C	3.1E-01	C	3.6E-01	C	1.9E-02	C	2.4E-02	C	
Ethylene thiourea (ETU)	96-45-7		4.4E+00	C	5.8E+00	C	1.6E+01	C	5.2E+01	C	6.1E-02	C	6.1E-01	C	
Ethyl ether	60-29-7		1.8E+03	sat	1.8E+03	sat	1.8E+03	sat	1.8E+03	sat	7.3E+02	N	1.2E+03	N	
Ethyl methacrylate	97-63-2		1.4E+02	sat	1.4E+02	sat	1.4E+02	sat	1.4E+02	sat	3.3E+02	N	5.5E+02	N	
Fenamiphos	22224-92-6		1.5E+01	N	2.0E+01	N	1.6E+02	N	5.1E+02	N	9.1E-01	N	9.1E+00	N	
Fluometuron	2164-17-2		7.9E+02	N	1.0E+03	N	8.1E+03	N	2.7E+04	N	4.7E+01	N	4.7E+02	N	
Fluoride	16984-48-8		3.6E+03	N	4.7E+03	N	3.7E+04	N	1.0E+05	max			2.2E+03	N	
Fomesafen	72178-02-0		2.5E+00	C	3.4E+00	C	9.2E+00	C	3.0E+01	C	3.5E-02	C	3.5E-01	C	
Fonofos	944-22-9		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
Formaldehyde	50-00-0		9.1E+03	N	1.2E+04	N	9.3E+04	N	1.0E+05	max	1.5E-01	C	5.5E+03	N	
Formic Acid	64-18-6		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	7.3E+03	N	7.3E+04	N	
Furan	110-00-9		2.5E+00	N	2.5E+00	N	8.5E+00	N	8.6E+00	N	3.7E+00	N	6.1E+00	N	
Furazolidone	67-45-8		1.3E-01	C	1.7E-01	C	4.6E-01	C	1.5E+00	C	1.8E-03	C	1.8E-02	C	
Furfural	98-01-1		1.8E+02	N	2.3E+02	N	1.9E+03	N	6.1E+03	N	5.2E+01	N	1.1E+02	N	
Glycidaldehyde	765-34-4		2.4E+01	N	3.1E+01	N	2.5E+02	N	8.2E+02	N	1.0E+00	N	1.5E+01	N	

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Risk-Based Screening Levels											
			Soil (ingestion, inhalation, with and without dermal exposure routes)						Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)				
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal								
ug/l	mg/kg	mg/kg	mg/kg	mg/kg			ug/m3	ug/l				mg/kg		

Glyphosate	1071-83-6	7.0E+02	6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	3.7E+02	N	3.7E+03	N	
Heptachlor	76-44-8	1.0E-01	1.1E-01	C	1.4E-01	C	3.9E-01	C	1.3E+00	C	1.5E-03	C	1.5E-02	C	1.0E+00
Heptachlor epoxide	1024-57-3	2.0E-01	5.3E-02	C	7.0E-02	C	1.9E-01	C	6.3E-01	C	7.4E-04	C	7.4E-03	C	3.0E-02
Hexabromobenzene	87-82-1		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
Hexachlorobenzene	118-74-1	1.0E+00	3.0E-01	C	4.0E-01	C	1.1E+00	C	3.6E+00	C	4.2E-03	C	4.2E-02	C	1.0E-01
Hexachlorobutadiene	87-68-3		6.2E+00	C	8.2E+00	C	2.2E+01	C	7.3E+01	C	8.7E-02	C	8.6E-01	C	1.0E-01
HCH (alpha)	319-84-6		9.0E-02	C	1.0E-01	C	4.8E-01	C	9.1E-01	C	1.1E-03	C	1.1E-02	C	3.0E-05
HCH (beta)	319-85-7		3.1E-01	C	3.6E-01	C	1.7E+00	C	3.2E+00	C	3.7E-03	C	3.7E-02	C	1.0E-04
HCH (gamma) Lindane	58-89-9	2.0E-01	4.4E-01	C	4.9E-01	C	2.3E+00	C	4.4E+00	C	5.2E-03	C	5.2E-02	C	5.0E-04
HCH-technical	608-73-1		3.1E-01	C	3.6E-01	C	1.7E+00	C	3.2E+00	C	3.8E-03	C	3.7E-02	C	1.0E-04
Hexachlorocyclopentadiene	77-47-4	5.0E+01	4.2E+02	N	5.4E+02	N	4.2E+03	N	1.3E+04	N	7.3E-02	N	2.6E+02	N	2.0E+01
Hexachlorodibenzo-p-dioxin mixture (HxCDD)	19408-74-3		7.8E-05	C	1.0E-04	C	2.8E-04	C	9.2E-04	C	1.5E-06	C	1.1E-05	C	
Hexachloroethane	67-72-1		3.5E+01	C	4.6E+01	C	1.2E+02	C	4.1E+02	C	4.8E-01	C	4.8E+00	C	2.0E-02
Hexachlorophene	70-30-4		1.8E+01	N	2.3E+01	N	1.9E+02	N	6.1E+02	N	1.1E+00	N	1.1E+01	N	
Hexahydro-1,3,5-trinitro-1,3,5-triazine	121-82-4		4.4E+00	C	5.8E+00	C	1.6E+01	C	5.2E+01	C	6.1E-02	C	6.1E-01	C	
1,6-Hexamethylene diisocyanate	822-06-0		1.7E-01	N	2.2E-01	N	1.8E+00	N	5.8E+00	N	1.0E-02	N	1.0E-01	N	
n-Hexane	110-54-3		1.1E+02	sat	1.1E+02	sat	1.1E+02	sat	1.1E+02	sat	2.1E+02	N	3.5E+02	N	
Hexazinone	51235-04-2		2.0E+03	N	2.6E+03	N	2.1E+04	N	6.7E+04	N	1.2E+02	N	1.2E+03	N	
Hydrazine, hydrazine sulfate	302-01-2		1.6E-01	C	2.1E-01	C	5.8E-01	C	1.9E+00	C	3.9E-04	C	2.2E-02	C	
Hydrogen chloride	7647-01-0		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	2.1E+01	N			
Hydrogen sulfide	7783-06-4		1.8E+02	N	2.3E+02	N	1.9E+03	N	6.1E+03	N	1.0E+00	N	1.1E+02	N	
p-Hydroquinone	123-31-9		2.4E+03	N	3.1E+03	N	2.5E+04	N	8.2E+04	N	1.5E+02	N	1.5E+03	N	

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Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration										Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)	
			Risk-Based Screening Levels											
			Soil (ingestion, inhalation, with and without dermal exposure routes)						Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)				
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal	ug/m3	ug/l						
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg								

Iron	7439-89-6		2.3E+04	N	2.3E+04	N	1.0E+05	max	1.0E+05	max			1.1E+04	N	
Isobutanol	78-83-1		1.1E+04	N	1.3E+04	N	4.0E+04	sat	4.0E+04	sat	1.1E+03	N	1.8E+03	N	
Isophorone	78-59-1		5.1E+02	C	6.7E+02	C	1.8E+03	C	6.0E+03	C	7.1E+00	C	7.1E+01	C	3.0E-02
Isopropalin	33820-53-0		9.1E+02	N	1.2E+03	N	9.3E+03	N	3.1E+04	N	5.5E+01	N	5.5E+02	N	
Isopropyl methyl phosphonic acid	1832-54-8		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	4.0E+02	N	3.7E+03	N	
Kepone	143-50-0		2.7E-02	C	3.6E-02	C	9.7E-02	C	3.2E-01	C	3.7E-04	C	3.7E-03	C	
Lead	7439-92-1	1.5E+01	4.0E+02				2.0E+03						1.5E+01		
Lead (tetraethyl)	78-00-2		6.1E-03	N	7.8E-03	N	6.2E-02	N	2.0E-01	N			3.7E-03	N	
Lithium	7439-93-2		1.6E+03	N	1.6E+03	N	4.1E+04	N	4.1E+04	N			7.3E+02	N	
Malathion	121-75-5		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	
Maleic anhydride	108-31-6		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	3.7E+02	N	3.7E+03	N	
Manganese and compounds	7439-96-5		3.2E+03	N	3.2E+03	N	4.7E+04	N	4.7E+04	N	5.1E-02	N	1.7E+03	N	
Mephosfolan	950-10-7		5.5E+00	N	7.0E+00	N	5.6E+01	N	1.8E+02	N	3.3E-01	N	3.3E+00	N	
Mepiquat	24307-26-4		1.8E+03	N	2.3E+03	N	1.9E+04	N	6.1E+04	N	1.1E+02	N	1.1E+03	N	
2-Mercaptobenzothiazole	149-30-4		1.7E+01	C	2.2E+01	C	6.0E+01	C	2.0E+02	C	2.3E-01	C	2.3E+00	C	
Mercury and compounds	7487-94-7	2.0E+00	2.3E+01	N	2.3E+01	N	6.1E+02	N	6.1E+02	N			1.1E+01	N	
Mercury (elemental)	7439-97-6										3.1E-01	N			
Mercury (methyl)	22967-92-6		6.1E+00	N	7.8E+00	N	6.2E+01	N	2.0E+02	N			3.7E+00	N	
Methacrylonitrile	126-98-7		1.9E+00	N	2.1E+00	N	8.0E+00	N	8.8E+00	N	7.3E-01	N	1.0E+00	N	
Methanol	67-56-1		3.0E+04	N	3.9E+04	N	1.0E+05	max	1.0E+05	max	1.8E+03	N	1.8E+04	N	
Methidathion	950-37-8		6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	
Methoxychlor	72-43-5	4.0E+01	3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N	1.8E+01	N	1.8E+02	N	8.0E+00
Methyl acetate	79-20-9		2.0E+04	N	2.2E+04	N	8.7E+04	N	9.6E+04	N	3.7E+03	N	6.1E+03	N	
Methyl acrylate	96-33-3		6.9E+01	N	7.0E+01	N	2.3E+02	N	2.3E+02	N	1.1E+02	N	1.8E+02	N	
2-Methylaniline (o-	95-53-4		2.0E+00	C	2.7E+00	C	7.3E+00	C	2.4E+01	C	2.8E-02	C	2.8E-01	C	

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			Risk-Based Screening Levels											
			Soil (ingestion, inhalation, with and without dermal exposure routes)					Ambient Air (Residential Scenario)		Tap Water (Residential Scenario: Ingestion & Inhalation)				
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal								
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg						

toluidine)														
2-Methyl-4-chlorophenoxyacetic acid	94-74-6		3.0E+01	N	3.9E+01	N	3.1E+02	N	1.0E+03	N	1.8E+00	N	1.8E+01	N
4-(2-Methyl-4-chlorophenoxy) butyric acid (MCPB)	94-81-5		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N
2-(2-Methyl-4-chlorophenoxy) propionic acid	93-65-2		6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N
2-(2-Methyl-1,4-chlorophenoxy) propionic acid (MCPB)	16484-77-8		6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N
Methylcyclohexane	108-87-2		1.4E+02	sat	1.4E+02	sat	1.4E+02	sat	1.4E+02	sat	3.1E+03	N	5.2E+03	N
4,4'-Methylene bis(2-chloroaniline)	101-14-4		3.7E+00	C	4.9E+00	C	1.3E+01	C	4.4E+01	C	5.2E-02	C	5.2E-01	C
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1		1.1E+01	C	1.4E+01	C	3.8E+01	C	1.2E+02	C	1.5E-01	C	1.5E+00	C
Methylene bromide	74-95-3		1.3E+02	N	1.4E+02	N	5.2E+02	N	5.5E+02	N	3.7E+01	N	6.1E+01	N
Methylene chloride	75-09-2		8.6E+00	C	8.9E+00	C	1.9E+01	C	2.1E+01	C	4.1E+00	C	4.3E+00	C
4,4'-Methylenediphenyl isocyanate	101-68-8		1.0E+01	N	1.3E+01	N	1.1E+02	N	3.5E+02	N	6.2E-01	N	6.2E+00	N
Methyl ethyl ketone	78-93-3		7.0E+03	N	7.3E+03	N	2.6E+04	N	2.8E+04	N	1.0E+03	N	1.9E+03	N
Methyl hydrazine	60-34-4		4.4E-01	C	5.8E-01	C	1.6E+00	C	5.2E+00	C	6.1E-03	C	6.1E-02	C
Methyl isobutyl ketone	108-10-1		7.6E+02	N	7.9E+02	N	2.8E+03	N	2.9E+03	N	8.3E+01	N	1.6E+02	N
Methyl mercaptan	74-93-1		3.5E+01	N	4.5E+01	N	3.6E+02	N	1.2E+03	N	2.1E+00	N	2.1E+01	N
Methyl methacrylate	80-62-6		2.2E+03	N	2.2E+03	N	2.7E+03	sat	2.7E+03	sat	7.3E+02	N	1.4E+03	N
2-Methyl-5-nitroaniline	99-55-8		1.5E+01	C	1.9E+01	C	5.3E+01	C	1.7E+02	C	2.0E-01	C	2.0E+00	C
Methyl parathion	298-00-0		1.5E+01	N	2.0E+01	N	1.6E+02	N	5.1E+02	N	9.1E-01	N	9.1E+00	N

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											
			Risk-Based Screening Levels											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1) mg/kg
			Soil (ingestion, inhalation, with and without dermal exposure routes)								Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)		
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal								
		ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg			

2-Methylphenol	95-48-7		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max	1.8E+02	N	1.8E+03	N	8.0E-01
3-Methylphenol	108-39-4		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max	1.8E+02	N	1.8E+03	N	
4-Methylphenol	106-44-5		3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N	1.8E+01	N	1.8E+02	N	
Methyl phosphonic acid	993-13-5		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	
Methyl styrene (mixture)	25013-15-4		1.2E+02	N	1.3E+02	N	5.1E+02	N	5.6E+02	N	4.2E+01	N	6.0E+01	N	
Methyl styrene (alpha)	98-83-9		6.8E+02	sat	6.8E+02	sat	6.8E+02	sat	6.8E+02	sat	2.6E+02	N	4.3E+02	N	
Methyl tertbutyl ether (MTBE)	1634-04-4										3.1E+03	N	2.0E+01		
Metolaclor (Dual)	51218-45-2		9.1E+03	N	1.2E+04	N	9.3E+04	N	1.0E+05	max	5.5E+02	N	5.5E+03	N	
Mirex	2385-85-5		2.7E-01	C	3.6E-01	C	9.7E-01	C	3.2E+00	C	3.7E-03	C	3.7E-02	C	
Molybdenum	7439-98-7		3.9E+02	N	3.9E+02	N	1.0E+04	N	1.0E+04	N			1.8E+02	N	
Monochloramine	10599-90-3		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	3.7E+02	N	3.7E+03	N	
Naled	300-76-5		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
Nickel and compounds	7440-02-0	1.0E+02	1.6E+03	N	1.6E+03	N	4.1E+04	N	4.1E+04	N			7.3E+02	N	7.0E+00
Nickel refinery dust	n/a		1.1E+04	C	1.1E+04	C	2.2E+04	C	2.2E+04	C	8.0E-03	C			
Nickel subsulfide	12035-72-2		5.2E+03	C	5.2E+03	C	1.1E+04	C	1.1E+04	C	4.0E-03	C			
Nitrate	14797-55-8	1.0E+04											1.0E+04		
Nitric Oxide	10102-43-9		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max			3.7E+03	N	
Nitrite	14797-65-0	1.0E+03											1.0E+03		
2-Nitroaniline	88-74-4		3.6E+00	N	4.7E+00	N	3.7E+01	N	1.2E+02	N	2.1E-01	N	2.2E+00	N	
Nitrobenzene	98-95-3		1.7E+01	N	2.0E+01	N	9.1E+01	N	1.1E+02	N	2.1E+00	N	3.4E+00	N	7.0E-03
Nitrofurantoin	67-20-9		4.2E+03	N	5.5E+03	N	4.4E+04	N	1.0E+05	max	2.6E+02	N	2.6E+03	N	
Nitrofurazone	59-87-0		3.2E-01	C	4.3E-01	C	1.2E+00	C	3.8E+00	C	7.2E-04	C	4.5E-02	C	
Nitrogen dioxide	101102-44-0		6.1E+04	N	7.8E+04	N	1.0E+05	max	1.0E+05	max			3.7E+04	N	
4-Nitrophenol	100-02-7		3.8E+03	N	4.8E+03	N	3.9E+04	N	1.0E+05	max	2.3E+02	N	2.3E+03	N	
2-Nitropropane	79-46-9		5.1E-02	C	6.8E-02	C	1.9E-01	C	6.1E-01	C	7.2E-04	C	1.2E-03	C	
N-Nitrosodi-n-butylamine	924-16-3		2.3E-02	C	2.4E-02	C	5.4E-02	C	6.2E-02	C	1.2E-03	C	2.0E-03	C	

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration										Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Risk-Based Screening Levels										
			Soil (ingestion, inhalation, with and without dermal exposure routes)					Ambient Air (Residential Scenario)		Tap Water (Residential Scenario: Ingestion & Inhalation)			
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal							
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l				mg/kg		

N-Nitrosodiethanolamine	1116-54-7		1.7E-01	C	2.3E-01	C	6.2E-01	C	2.0E+00	C	2.4E-03	C	2.4E-02	C	
N-Nitrosodiethylamine	55-18-5		3.2E-03	C	4.3E-03	C	1.2E-02	C	3.8E-02	C	4.5E-05	C	4.5E-04	C	
N-Nitrosodimethylamine	62-75-9		9.5E-03	C	1.3E-02	C	3.4E-02	C	1.1E-01	C	1.4E-04	C	1.3E-03	C	
N-Nitrosodiphenylamine	86-30-6		9.9E+01	C	1.3E+02	C	3.6E+02	C	1.2E+03	C	1.4E+00	C	1.4E+01	C	6.0E-02
N-Nitroso di-n-propylamine	621-64-7		6.9E-02	C	9.1E-02	C	2.5E-01	C	8.2E-01	C	9.6E-04	C	9.6E-03	C	2.0E-06
N-Nitroso-N-methylethylamine	10595-95-6		2.2E-02	C	2.9E-02	C	7.9E-02	C	2.6E-01	C	3.1E-04	C	3.1E-03	C	
N-Nitrosopyrrolidine	930-55-2		2.3E-01	C	3.0E-01	C	8.3E-01	C	2.7E+00	C	3.1E-03	C	3.2E-02	C	
m-Nitrotoluene	99-08-1		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
o-Nitrotoluene	99-08-1		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
p-Nitrotoluene	99-99-0		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
NuStar	85509-19-9		4.2E+01	N	5.5E+01	N	4.4E+02	N	1.4E+03	N	2.6E+00	N	2.6E+01	N	
Octahydro-1357-tetranitro-1357- tetrazocine (HMX)	2691-41-0		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max	1.8E+02	N	1.8E+03	N	
Oryzalin	19044-88-3		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max	1.8E+02	N	1.8E+03	N	
Oxadiazon	19666-30-9		3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N	1.8E+01	N	1.8E+02	N	
Oxamyl	23135-22-0	2.0E+02	1.5E+03	N	2.0E+03	N	1.6E+04	N	5.1E+04	N	9.1E+01	N	9.1E+02	N	
Oxyfluorfen	42874-03-3		1.8E+02	N	2.3E+02	N	1.9E+03	N	6.1E+03	N	1.1E+01	N	1.1E+02	N	
Paraquat	4685-14-7		2.7E+02	N	3.5E+02	N	2.8E+03	N	9.2E+03	N	1.6E+01	N	1.6E+02	N	
Parathion	56-38-2		3.6E+02	N	4.7E+02	N	3.7E+03	N	1.2E+04	N	2.2E+01	N	2.2E+02	N	
Pentachlorobenzene	608-93-5		4.9E+01	N	6.3E+01	N	5.0E+02	N	1.6E+03	N	2.9E+00	N	2.9E+01	N	
Pentachloronitrobenzene	82-68-8		1.9E+00	C	2.5E+00	C	6.7E+00	C	2.2E+01	C	2.6E-02	C	2.6E-01	C	
Pentachlorophenol	87-86-5	1.0E+00	2.9E+00	C	5.3E+00	C	7.1E+00	C	4.8E+01	C	5.6E-02	C	5.6E-01	C	1.0E-03
Perchlorate	7601-90-3		3.9E+01	N	3.9E+01	N	1.0E+03	N	1.0E+03	N			1.8E+01	N	
Permethrin	52645-53-1		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max	1.8E+02	N	1.8E+03	N	
Phenol	108-95-2		3.6E+04	N	4.7E+04	N	1.0E+05	max	1.0E+05	max	2.2E+03	N	2.2E+04	N	5.0E+00

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											
			Risk-Based Screening Levels											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Soil (ingestion, inhalation, with and without dermal exposure routes)							Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)			
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg					

Phenothiazine	92-84-2		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
m-Phenylenediamine	108-45-2		3.6E+02	N	4.7E+02	N	3.7E+03	N	1.2E+04	N	2.2E+01	N	2.2E+02	N	
p-Phenylenediamine	106-50-3		1.2E+04	N	1.5E+04	N	1.0E+05	max	1.0E+05	max	6.9E+02	N	6.9E+03	N	
Phenylmercuric acetate	62-38-4		4.9E+00	N	6.3E+00	N	5.0E+01	N	1.6E+02	N	2.9E-01	N	2.9E+00	N	
2-Phenylphenol	90-43-7		2.5E+02	C	3.3E+02	C	9.0E+02	C	2.9E+03	C	3.5E+00	C	3.5E+01	C	
Phosphine	7803-51-2		1.8E+01	N	2.3E+01	N	1.9E+02	N	6.1E+02	N	3.1E-01	N	1.1E+01	N	
Phosphoric acid	7664-38-2										1.0E+01	N			
Phosphorus (white)	7723-14-0		1.6E+00	N	1.6E+00	N	4.1E+01	N	4.1E+01	N			7.3E-01	N	
p-Phthalic acid	100-21-0		6.1E+04	N	7.8E+04	N	1.0E+05	max	1.0E+05	max	3.7E+03	N	3.7E+04	N	
Phthalic anhydride	85-44-9		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	1.2E+02	N	7.3E+04	N	
Polybrominated biphenyls			5.4E-02	C	7.2E-02	C	2.0E-01	C	6.4E-01	C	7.6E-04	C	7.6E-03	C	
Polychlorinated biphenyls (PCBs)	1336-36-3	5.0E-01	2.2E-01	C	3.2E-01	C	6.8E-01	C	2.9E+00	C	3.4E-03	C	3.4E-02	C	
Aroclor 1016	12674-11-2		3.9E+00	N	5.5E+00	N	3.4E+01	N	1.4E+02	N	2.6E-01	N	2.6E+00	N	
Aroclor 1254	11097-69-1		1.1E+00	N	1.6E+00	N	9.8E+00	N	4.1E+01	N	7.3E-02	N	7.3E-01	N	
Polynuclear aromatic hydrocarbons															
Acenaphthene	83-32-9		2.8E+03	N	3.7E+03	N	2.0E+04	N	3.8E+04	N	2.2E+02	N	3.7E+02	N	2.9E+01
Anthracene	120-12-7		1.6E+04	N	2.2E+04	N	1.0E+05	max	1.0E+05	max	1.1E+03	N	1.8E+03	N	5.9E+02
Benz[a]anthracene	56-55-3		6.2E-01	C	8.8E-01	C	2.0E+00	C	7.8E+00	C	2.2E-02	C	9.2E-02	C	8.0E-02
Benzo[b]fluoranthene	205-99-2		6.2E-01	C	8.8E-01	C	2.0E+00	C	7.8E+00	C	2.2E-02	C	9.2E-02	C	2.0E-01
Benzo[k]fluoranthene	207-08-9		6.2E+00	C	8.8E+00	C	2.0E+01	C	7.8E+01	C	2.2E-01	C	9.2E-01	C	2.0E+00
Benzo[a]pyrene	50-32-8	2.0E-01	6.2E-02	C	8.8E-02	C	2.0E-01	C	7.8E-01	C	2.2E-03	C	9.2E-03	C	4.0E-01
Chrysene	218-01-9		6.2E+01	C	8.8E+01	C	2.0E+02	C	7.8E+02	C	2.2E+00	C	9.2E+00	C	8.0E+00
Dibenz[ah]anthracene	53-70-3		6.2E-02	C	8.8E-02	C	2.0E-01	C	7.8E-01	C	2.2E-03	C	9.2E-03	C	8.0E-02
Fluoranthene	206-44-0		2.3E+03	N	3.1E+03	N	2.1E+04	N	8.2E+04	N	1.5E+02	N	1.5E+03	N	2.1E+02
Fluorene	86-73-7		2.0E+03	N	2.6E+03	N	1.5E+04	N	3.3E+04	N	1.5E+02	N	2.4E+02	N	2.8E+01
Indeno[1,2,3-cd]pyrene	193-39-5		6.2E-01	C	8.8E-01	C	2.0E+00	C	7.8E+00	C	2.2E-02	C	9.2E-02	C	7.0E-01

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration										Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Risk-Based Screening Levels										
			Soil (ingestion, inhalation, with and without dermal exposure routes)					Ambient Air (Residential Scenario)		Tap Water (Residential Scenario: Ingestion & Inhalation)			
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal							
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg					

Naphthalene	91-20-3		5.5E+01	N	5.6E+01	N	1.9E+02	N	1.9E+02	N	3.1E+00	N	6.2E+00	N	4.0E+00
Pyrene	129-00-0		1.7E+03	N	2.3E+03	N	1.5E+04	N	5.4E+04	N	1.1E+02	N	1.8E+02	N	2.1E+02
Prometon	1610-18-0		9.1E+02	N	1.2E+03	N	9.3E+03	N	3.1E+04	N	5.5E+01	N	5.5E+02	N	
Prometryn	7287-19-6		2.4E+02	N	3.1E+02	N	2.5E+03	N	8.2E+03	N	1.5E+01	N	1.5E+02	N	
Propachlor	1918-16-7		7.9E+02	N	1.0E+03	N	8.1E+03	N	2.7E+04	N	4.7E+01	N	4.7E+02	N	
Propanil	709-98-8		3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N	1.8E+01	N	1.8E+02	N	
Propargite	2312-35-8		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	
Propargyl alcohol	107-19-7		1.2E+02	N	1.6E+02	N	1.2E+03	N	4.1E+03	N	7.3E+00	N	7.3E+01	N	
Propazine	139-40-2		1.2E+03	N	1.6E+03	N	1.2E+04	N	4.1E+04	N	7.3E+01	N	7.3E+02	N	
Propiconazole	60207-90-1		7.9E+02	N	1.0E+03	N	8.1E+03	N	2.7E+04	N	4.7E+01	N	4.7E+02	N	
iso-Propylbenzene	104-5-18		1.3E+02	N	1.3E+02	N	3.9E+02	sat	3.9E+02	sat	3.7E+01	N	6.1E+01	N	
n-Propylbenzene	104-51-8		1.4E+02	N	1.4E+02	N	2.4E+02	sat	2.4E+02	sat	3.7E+01	N	6.1E+01	N	
Propylene glycol	57-55-6		1.0E+05	max	1.0E+05	max	1.0E+05	max	1.0E+05	max	7.3E+04	N	7.3E+05	N	
Propylene glycol, monoethyl ether	111-35-3		4.2E+04	N	5.5E+04	N	1.0E+05	max	1.0E+05	max	2.6E+03	N	2.6E+04	N	
Propylene glycol, monomethyl ether	107-98-2		4.2E+04	N	5.5E+04	N	1.0E+05	max	1.0E+05	max	2.1E+03	N	2.6E+04	N	
Propylene oxide	75-56-9		1.6E+00	C	1.9E+00	C	4.9E+00	C	9.1E+00	C	5.2E-01	C	2.2E-01	C	
Pursuit	81335-77-5		1.5E+04	N	2.0E+04	N	1.0E+05	max	1.0E+05	max	9.1E+02	N	9.1E+03	N	
Pyridine	110-86-1		6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	
Quinoline	91-22-5		4.0E-02	C	5.3E-02	C	1.5E-01	C	4.8E-01	C	5.6E-04	C	5.6E-03	C	
RDX (Cyclonite)	121-82-4		4.4E+00	C	5.8E+00	C	1.6E+01	C	5.2E+01	C	6.1E-02	C	6.1E-01	C	
Resmethrin	10453-86-8		1.8E+03	N	2.3E+03	N	1.9E+04	N	6.1E+04	N	1.1E+02	N	1.1E+03	N	
Ronnel	299-84-3		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max	1.8E+02	N	1.8E+03	N	
Rotenone	83-79-4		2.4E+02	N	3.1E+02	N	2.5E+03	N	8.2E+03	N	1.5E+01	N	1.5E+02	N	
Selenious Acid	7783-00-8		3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N			1.8E+02	N	
Selenium	7782-49-2	5.0E+01	3.9E+02	N	3.9E+02	N	1.0E+04	N	1.0E+04	N			1.8E+02	N	3.0E-01

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											
			Risk-Based Screening Levels											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Soil (ingestion, inhalation, with and without dermal exposure routes)								Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)		
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal	ug/m3	ug/l	mg/kg					
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l	mg/kg							

Silver and compounds	7440-22-4		3.9E+02	N	3.9E+02	N	1.0E+04	N	1.0E+04	N			1.8E+02	N	2.0E+00
Simazine	122-34-9	4.0E+00	4.0E+00	C	5.3E+00	C	1.5E+01	C	4.8E+01	C	5.6E-02	C	5.6E-01	C	
Sodium azide	26628-22-8		2.4E+02	N	3.1E+02	N	2.5E+03	N	8.2E+03	N	1.5E+01	N	1.5E+02	N	
Sodium diethyldithiocarbamate	148-18-5		1.8E+00	C	2.4E+00	C	6.5E+00	C	2.1E+01	C	2.5E-02	C	2.5E-01	C	
Sodium fluoroacetate	62-74-8		1.2E+00	N	1.6E+00	N	1.2E+01	N	4.1E+01	N	7.3E-02	N	7.3E-01	N	
Sodium metavanadate	13718-26-8		6.1E+01	N	7.8E+01	N	6.2E+02	N	2.0E+03	N	3.7E+00	N	3.7E+01	N	
Strontium, stable	7440-24-6		4.7E+04	N	4.7E+04	N	1.0E+05	max	1.0E+05	max			2.2E+04	N	
Strychnine	57-24-9		1.8E+01	N	2.3E+01	N	1.9E+02	N	6.1E+02	N	1.1E+00	N	1.1E+01	N	
Styrene	100-42-5	1.0E+02	1.7E+03	sat	1.7E+03	sat	1.7E+03	sat	1.7E+03	sat	1.1E+03	N	1.6E+03	N	2.0E-01
2,3,7,8-TCDD (dioxin)	1746-01-6	3.0E-05	3.9E-06	C	4.3E-06	C	2.3E-05	C	3.8E-05	C	4.5E-08	C	4.5E-07	C	
1,2,4,5-Tetrachlorobenzene	95-94-3		1.8E+01	N	2.3E+01	N	1.9E+02	N	6.1E+02	N	1.1E+00	N	1.1E+01	N	
1,1,1,2-Tetrachloroethane	630-20-6		2.9E+00	C	3.0E+00	C	6.6E+00	C	7.1E+00	C	2.6E-01	C	4.3E-01	C	
1,1,2,2-Tetrachloroethane	79-34-5		3.7E-01	C	3.8E-01	C	8.4E-01	C	9.0E-01	C	3.3E-02	C	5.5E-02	C	2.0E-04
Tetrachloroethylene (PCE)	127-18-4	5.0E+00	4.9E+00	C	5.7E+00	C	1.3E+01	C	1.9E+01	C	3.3E+00	C	1.1E+00	C	3.0E-03
2,3,4,6-Tetrachlorophenol	58-90-2		1.8E+03	N	2.3E+03	N	1.9E+04	N	6.1E+04	N	1.1E+02	N	1.1E+03	N	
p,a,a,a-Tetrachlorotoluene	5216-25-1		2.4E-02	C	3.2E-02	C	8.7E-02	C	2.9E-01	C	3.4E-04	C	3.4E-03	C	
Tetrachlorovinphos	961-11-5		2.0E+01	C	2.7E+01	C	7.3E+01	C	2.4E+02	C	2.8E-01	C	2.8E+00	C	
Tetrahydrofuran	109-99-9		5.2E+03	N	6.7E+03	N	5.3E+04	N	1.0E+05	max	3.1E+02	N	3.1E+03	N	
Thallic oxide	1314-32-5		5.5E+00	N	5.5E+00	N	1.4E+02	N	1.4E+02	N			2.6E+00	N	
Thallium acetate	563-68-8	2.0E+00	7.0E+00	N	7.0E+00	N	1.8E+02	N	1.8E+02	N			3.3E+00	N	4.0E-01
Thallium carbonate	6533-73-9	2.0E+00	6.3E+00	N	6.3E+00	N	1.6E+02	N	1.6E+02	N			2.9E+00	N	4.0E-01
Thallium chloride	7791-12-0	2.0E+00	6.3E+00	N	6.3E+00	N	1.6E+02	N	1.6E+02	N			2.9E+00	N	4.0E-01
Thallium nitrate	10102-45-1	2.0E+00	7.0E+00	N	7.0E+00	N	1.8E+02	N	1.8E+02	N			3.3E+00	N	4.0E-01
Thallium selenite	12039-52-0	2.0E+00	7.0E+00	N	7.0E+00	N	1.8E+02	N	1.8E+02	N			3.3E+00	N	4.0E-01
Thallium sulfate	7446-18-6	2.0E+00	6.3E+00	N	6.3E+00	N	1.6E+02	N	1.6E+02	N			2.9E+00	N	4.0E-01

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration											
			Risk-Based Screening Levels											Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Soil (ingestion, inhalation, with and without dermal exposure routes)							Ambient Air (Residential Scenario)	Tap Water (Residential Scenario: Ingestion & Inhalation)			
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal								
ug/l	mg/kg	mg/kg	mg/kg	mg/kg			ug/m3	ug/l			mg/kg			

Thiobencarb	28249-77-6		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
Thiocyanate	N/A		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	3.7E+02	N	3.7E+03	N	
Tin and compounds	N/A		4.7E+04	N	4.7E+04	N	1.0E+05	max	1.0E+05	max			2.2E+04	N	
Toluene	108-88-3	1.0E+03	5.2E+02	sat	5.2E+02	sat	5.2E+02	sat	5.2E+02	sat	4.0E+02	N	7.2E+02	N	6.0E-01
Toluene-2,4-diamine	95-80-7		1.5E-01	C	2.0E-01	C	5.5E-01	C	1.8E+00	C	2.1E-03	C	2.1E-02	C	
Toluene-2,5-diamine	95-70-5		3.6E+04	N	4.7E+04	N	1.0E+05	max	1.0E+05	max	2.2E+03	N	2.2E+04	N	
Toluene-2,6-diamine	823-40-5		1.2E+04	N	1.6E+04	N	1.0E+05	max	1.0E+05	max	7.3E+02	N	7.3E+03	N	
p-Toluidine	106-49-0		2.5E+00	C	3.4E+00	C	9.2E+00	C	3.0E+01	C	3.5E-02	C	3.5E-01	C	
Toxaphene	8001-35-2	3.0E+00	4.4E-01	C	5.8E-01	C	1.6E+00	C	5.2E+00	C	6.0E-03	C	6.1E-02	C	2.0E+00
1,2,4-Tribromobenzene	615-54-3		3.0E+02	N	3.9E+02	N	3.1E+03	N	1.0E+04	N	1.8E+01	N	1.8E+02	N	
Tributyltin oxide (TBTO)	56-35-9		1.8E+01	N	2.3E+01	N	1.9E+02	N	6.1E+02	N			1.1E+01	N	
2,4,6-Trichloroaniline	634-93-5		1.4E+01	C	1.9E+01	C	5.1E+01	C	1.7E+02	C	2.0E-01	C	2.0E+00	C	
1,2,4-Trichlorobenzene	120-82-1	7.0E+01	5.2E+02	N	6.5E+02	N	3.0E+03	sat	3.0E+03	sat	2.1E+02	N	1.9E+02	N	3.0E-01
1,1,1-Trichloroethane	71-55-6	2.0E+02	7.1E+02	N	7.7E+02	N	1.4E+03	sat	1.4E+03	sat	1.0E+03	N	7.9E+02	N	1.0E-01
1,1,2-Trichloroethane	79-00-5	5.0E+00	8.2E-01	C	8.4E-01	C	1.8E+00	C	1.9E+00	C	1.2E-01	C	2.0E-01	C	9.0E-04
Trichloroethylene (TCE)	79-01-6	5.0E+00	2.7E+00	C	2.8E+00	C	6.0E+00	C	6.1E+00	C	1.1E+00	C	1.6E+00	C	3.0E-03
Trichlorofluoromethane	75-69-4		3.8E+02	N	3.9E+02	N	1.3E+03	N	1.3E+03	N	7.3E+02	N	1.3E+03	N	
2,4,5-Trichlorophenol	95-95-4		6.1E+03	N	7.8E+03	N	6.2E+04	N	1.0E+05	max	3.7E+02	N	3.7E+03	N	1.4E+01
2,4,6-Trichlorophenol	88-06-2		4.4E+01	C	5.8E+01	C	1.6E+02	C	5.2E+02	C	6.2E-01	C	6.1E+00	C	8.0E-03
2,4,5-Trichlorophenoxyacetic Acid	93-76-5		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
2-(2,4,5-Trichlorophenoxy) propionic acid	93-72-1		4.9E+02	N	6.3E+02	N	5.0E+03	N	1.6E+04	N	2.9E+01	N	2.9E+02	N	
1,1,2-Trichloropropane	598-77-6		1.5E+01	N	1.5E+01	N	5.1E+01	N	5.1E+01	N	1.8E+01	N	3.0E+01	N	
1,2,3-Trichloropropane	96-18-4		1.4E-03	C	1.4E-03	C	3.1E-03	C	3.1E-03	C	9.6E-04	C	1.6E-03	C	
1,2,3-Trichloropropene	96-19-5		1.1E+01	N	1.2E+01	N	3.8E+01	N	3.9E+01	N	1.8E+01	N	3.0E+01	N	

EPA REGION 6- HUMAN HEALTH MEDIUM-SPECIFIC SCREENING LEVELS

Contaminant	CAS No.	MCL or Action Level	Basis: C=carcinogenic effects N=non-carcinogenic effects sat= soil saturation concentration max= maximum concentration										Soil Screening Level- Transfers from Soil to: Ground water (DAF=1)
			Risk-Based Screening Levels										
			Soil (ingestion, inhalation, with and without dermal exposure routes)					Ambient Air (Residential Scenario)		Tap Water (Residential Scenario: Ingestion & Inhalation)			
			Residential	Residential w/o dermal	Industrial	Industrial w/o dermal							
ug/l	mg/kg	mg/kg	mg/kg	mg/kg	ug/m3	ug/l				mg/kg			

1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		5.6E+03	sat	5.6E+03	sat	5.6E+03	sat	5.6E+03	sat	3.1E+04	N	5.9E+04	N	
Triethylamine	121-44-8		2.2E+01	N	2.3E+01	N	8.4E+01	N	8.8E+01	N	7.3E+00	N	1.2E+01	N	
1,2,4-Trimethylbenzene	95-63-6		5.2E+01	N	5.2E+01	N	1.7E+02	N	1.7E+02	N	6.2E+00	N	1.2E+01	N	
1,3,5-Trimethylbenzene	108-67-8		2.1E+01	N	2.1E+01	N	7.0E+01	N	7.0E+01	N	6.2E+00	N	1.2E+01	N	
Trimethyl phosphate	512-56-1		1.3E+01	C	1.7E+01	C	4.7E+01	C	1.5E+02	C	1.8E-01	C	1.8E+00	C	
1,3,5-Trinitrobenzene	99-35-4		1.8E+03	N	2.3E+03	N	1.9E+04	N	6.1E+04	N	1.1E+02	N	1.1E+03	N	
Trinitrophenylmethyl-nitramine	479-45-8		6.1E+02	N	7.8E+02	N	6.2E+03	N	2.0E+04	N	3.7E+01	N	3.7E+02	N	
2,4,6-Trinitrotoluene	118-96-7		1.6E+01	C	2.1E+01	C	5.8E+01	C	1.9E+02	C	2.2E-01	C	2.2E+00	C	
Vanadium	7440-62-2		5.5E+02	N	5.5E+02	N	1.4E+04	N	1.4E+04	N			2.6E+02	N	3.0E+02
Vanadium pentoxide	1314-62-1		7.0E+02	N	7.0E+02	N	1.8E+04	N	1.8E+04	N			3.3E+02	N	3.0E+02
Vanadium sulfate	13701-70-7		1.6E+03	N	1.6E+03	N	4.1E+04	N	4.1E+04	N			7.3E+02	N	3.0E+02
Vinclozolin	50471-44-8		1.5E+03	N	2.0E+03	N	1.6E+04	N	5.1E+04	N	9.1E+01	N	9.1E+02	N	
Vinyl acetate	108-05-4		4.3E+02	N	4.3E+02	N	1.4E+03	N	1.4E+03	N	2.1E+02	N	4.1E+02	N	8.0E+00
Vinyl bromide	593-60-2		1.9E-01	C	1.9E-01	C	4.1E-01	C	4.2E-01	C	6.1E-02	C	1.0E-01	C	
Vinyl chloride	75-01-4	2.0E+00	2.1E-02	C	2.2E-02	C	4.7E-02	C	4.9E-02	C	2.2E-02	C	2.0E-02	C	7.0E-04
Warfarin	81-81-2		1.8E+01	N	2.3E+01	N	1.9E+02	N	6.1E+02	N	1.1E+00	N	1.1E+01	N	
m-Xylene	108-38-3		2.1E+02	sat	2.1E+02	sat	2.1E+02	sat	2.1E+02	sat	7.3E+02	N	1.4E+03	N	1.0E+01
o-Xylene	95-47-6		2.8E+02	sat	2.8E+02	sat	2.8E+02	sat	2.8E+02	sat	7.3E+02	N	1.4E+03	N	9.0E+00
p-Xylene	106-42-3		3.7E+02	sat	3.7E+02	sat	3.7E+02	sat	3.7E+02	sat					1.0E+01
Zinc	7440-66-6		2.3E+04	N	2.3E+04	N	1.0E+05	max	1.0E+05	max			1.1E+04	N	6.2E+02
Zinc phosphide	1314-84-7		2.3E+01	N	2.3E+01	N	6.1E+02	N	6.1E+02	N			1.1E+01	N	
Zineb	12122-67-7		3.0E+03	N	3.9E+03	N	3.1E+04	N	1.0E+05	max	1.8E+02	N	1.8E+03	N	