PROPOSED RULEMAKING

ENVIRONMENTALQUALITY BOARD

[25 PA. CODE CH. 250]

Administration of Land Recycling Program

The Environmental Quality Board (Board) proposes to amend Chapter 250 (relating to Administration of Land Recycling Program). The amendments update the Statewide health standards by using current Environmental Protection Agency (EPA) guidance and updated toxicological information. The proposal also corrects errors and codifies certain established policies into regulation.

This proposal was adopted by the Board at its meeting of December 15, 2009.

A. Effective Date

These amendments will go into effect upon publication in the *Pennsylvania Bulletin* as final-form rulemaking.

B. Contact Persons

For further information, contact Troy Conrad, Director, Land Recycling Program, P. O. Box 8471, Rachel Carson State Office Building, Harrisburg, PA 17105-8471, (717) 783-7816 or Kurt Klapkowski, Assistant Counsel, Bureau of Regulatory Counsel, P. O. Box 8464, Rachel Carson State Office Building, Harrisburg, PA 17105-8464, (717) 787-7060. Information regarding submitting comments on this proposal appears in Section J of this preamble. Persons with a disability may use the Pennsylvania AT&T Relay Service by calling (800) 654-5984 (TDD users) or (800) 654-5988 (voice users). This proposal is available electronically through the Department of Environmental Protection's (Department) web site at http://www.depweb. state.pa.us.

C. Statutory Authority

This rulemaking is being made under the authority of sections 104(a) and 303(a) of the Land Recycling and Environmental Remediation Standards Act (Land Recycling Act) (35 P. S. §§ 6026.104(a) and 6026.303(a)), and section 1920-A of The Administrative Code of 1929 (71 P. S. § 510-20). Section 104(a) of the Land Recycling Act authorizes the Board to adopt Statewide health standards, appropriate mathematically valid statistical tests to define compliance with the Land Recycling Act and other regulations that may be needed to implement the provisions of the Land Recycling Act. Section 303(a) of the Land Recycling Act authorizes the Board to promulgate Statewide health standards for regulated substances for each environmental medium and methods used to calculate the standards. Section 1920-A authorizes the Board to formulate, adopt and promulgate rules and regulations that are necessary for the proper work of the Department.

D. Background and Purpose

The primary purpose for this proposed rulemaking is to update the standards related to cleanup of contaminated sites under the Land Recycling Act. The Land Recycling Act requires the Board to establish by regulation uniform Statewide health-based standards so that any substantial present or probable future risk to human health and the environment is eliminated. The original standards were promulgated in 1997 and codified in Chapter 250. Section

104(a) of the Land Recycling Act explicitly recognizes that these standards would need to be updated over time as better science became available and as the need for clarification or enhancement of the program became apparent. Updating the standards serves the public as the Department is able to use the most up-to-date health and scientific information to establish the cleanup standards. In addition, the changes in standards serve both the public and the regulated community as they provide clear information on what is or will be done at contaminated sites. This gives the public notice and provides remediators with a clear endpoint to the remediation process. Several amendments are currently part of guidance, but are proposed for addition to Chapter 250 to give the requirements the legal status of a binding norm, which should lead to greater consistency and clarity across this Commonwealth.

The proposal was discussed and approved with unanimous support at the Cleanup Standards Scientific Advisory Board (CSSAB) board meeting held on September 1, 2009; however, subsequent to the CSSAB's review, the Department reconsidered changes to the Statewide health standards initially considered for Methyl Tertiary Butyl Ether (MTBE) and decided not to propose any changes for MTBE at this time. The current Chapter 250 Statewide health cleanup standard for MTBE is 20 ug/l for groundwater used for drinking water. This 20 ug/l standard is the odor threshold for MTBE as published by the United States EPA in the "2006 Edition of the Drinking Water Standards and Health Advisories" (EPA 822-R-06-013). The Department has decided that the previously considered revisions for MTBE included in the September 1, 2009 draft, which allowed for higher concentrations of MTBE based on health based calculations, would have resulted in unacceptable taste and odor impacts on groundwater used for drinking water. The CSSAB reviewed the revised regulations on November 19, 2009, and while the CSSAB is supportive of the overall rulemaking, it opposes the standards for MTBE, as contained in the proposal, because they do not reflect specific health-based criteria from the Land Recycling Act.

E. Summary of Regulatory Requirements

§ 250.1. Definitions.

For three definitions in this section only an explanation of what the abbreviation meant was originally provided. This section has been modified to include a definition for "EQL—Estimated Quantitation Limit," "NPDES—National Pollutant Discharge Elimination System" and "PQL—Practical Quantitation Limit." A fourth definition, for "environmental covenant," was added due to the passage of the Uniform Environmental Covenants Act (27 Pa.C.S. §§ 6501—6517) (UECA).

§ 250.11. Periodic Review of MSCs.

This new section describes the Department's intent to keep the medium-specific concentrations (MSCs) in Appendix A to Chapter 250 current by proposing appropriate changes based on new scientific information that relates to the basis of the MSCs at least every 3 years.

§ 250.301. Scope.

In January 2009, the EPA issued a revised methodology for calculating the risk from regulated substances at Superfund sites by developing a new document "Risk Assessment for Superfund (RAGS), Volume I, Part F" (RAGS). A new Subsection (b) was added to identify those

regulated substances that the EPA has determined to be mutagens in the RAGS. The new methodology for calculating MSCs for these substances is described in §§ 250.306 and 250.307 (relating to ingestion numeric values; and inhalation numeric values).

§ 250.303. Aquifer determination; current use and currently planned use of aquifer groundwater.

The language of § 250.303(d)(3)(i) was modified to change the previously undefined terminology "acknowledged within the deed" to terminology defined under the UECA.

§ 250.304. MSCs for groundwater.

The proposed rulemaking clarifies that maximum contaminant levels (MCLs) and lifetime health advisory levels (HALs) promulgated by the Department or the EPA are immediately effective upon promulgation.

This section further clarifies the need for a remediator to address the potential intrusion of vapors from contaminated groundwater into buildings when conducting a Statewide health standard remediation under Chapter 250.

§ 250.305. MSCs for soil.

Similar to the clarification in § 250.304, this section further clarifies the need for a remediator to address the potential intrusion of vapors from contaminated soil into buildings when conducting a Statewide health standard remediation under Chapter 250.

§\$ 250.306 and 250.307. Ingestion numeric values; and inhalation numeric values.

The new formulas referenced in RAGS, Volume I, Part F represent an update by the EPA of its methodology to calculate inhalation risks, originally proposed in RAGS Part A. The key difference between RAGS Part F and RAGS Part A is the use of exposure estimates (that is, air concentration metrics) that are inhalation route-specific (that is, in ug/m³) rather than ones converted to chronic "air intake" (that is, mg/kg-day).

The update to RAGS was necessary to ensure that the calculation of risk estimates from inhaled chemicals is consistent with EPA's currently recommended approach to developing inhalation toxicity values, that is, inhalation reference concentration (RfCi, that is, mg/m³) and inhalation unit risk (IUR, that is, (ug/m³)-1). The approach to calculating inhalation toxicity values is referenced in EPA's Inhalation Dosimetry Methodology, Methods for Derivation of Inhalation Reference Concentrations (RfCs) and Application of Inhalation Dosimetry. (United States Environmental Protection Agency, Office of Research and Development, Office of Health and Environmental Assessment, Washington, DC, EPA/600/8-90/066F, October 1994.) The methodology assumes continuous exposure and is designed so that it yields toxicity values that sufficiently cover potential age and activity related variation in inhalation exposure (RAGS, Volume I, Part F, Page A-2, Second Bullet). The exception is for chemicals that may act as mutagens and for which susceptibility is not incorporated into the IUR. A separate adjustment factor is needed where early childhood exposures are to be evaluated.

For those substances classified as mutagens, the new inhalation methodology applies Age Dependent Adjustment Factors in the calculations. These substances are identified in § 250.301(b) of the proposed regulations.

Except for the MSCs of those regulated substances that have been determined to cause cancer by a mutagenic

mode of action, most of the soil and groundwater MSCs that are controlled by inhalation risks increased in value by using this new inhalation methodology. The soil and groundwater MSCs for mutagens have generally decreased in values as a result of using this new inhalation methodology

§ 250.308. Soil to groundwater pathway numeric values.

This proposed amendment corrects an omitted reference to one of the tables that contains the soil to groundwater values. No practical change in current practice is expected.

§ 250.407. Point of compliance.

This proposed change corrects a mistaken reference to soil to groundwater values on site-specific standard sites. No practical change in current practice is expected.

§ 250.605. Sources of toxicity information.

In addition to including new inhalation toxicity values (that is, inhalation reference concentration and inhalation unit risk) as required by RAGS, Volume I, Part F, the proposed changes also include an update to the hierarchy of toxicity values. This update to the hierarchy of toxicity values is necessary to comply with EPA guidance developed since the last update to Chapter 250 and titled Memorandum, Human Health Toxicity Values in Superfund Risk Assessments (OSWER Directive 9285.7-53, December 5, 2003).

§ 250.704. General attainment requirements for groundwater.

The Department recognizes that at the time of site assessment, many sites have groundwater contamination below a standard. In these cases, remediators desire the liability protection afforded by Chapter 5 of the Land Recycling Act (35 P. S. §§ 6026.501—6026.506) yet there is little scientific value in requiring additional attainment monitoring for the 8 quarters required under Subchapter G of the current regulations. The proposed change provides that the Department may consider the site assessment data as part of the information to be used to demonstrate attainment of a standard. This change fixes a problem in the construction of the rule requirements, and will allow remediators to more easily attain a standard without compromising public health.

§ 250.707. Statistical tests.

Section 250.707(b)(iii) applies to remediations where full site characterization has not been completed prior to remediation. This provision applies specifically to remediations of petroleum releases which typically result in visually observable contamination. This section provides for a reduced number of samples to demonstrate attainment, subject to a no exceedance rule rather than the application of statistical tests to demonstrate attainment. Section 250.707(b)(iv) was originally intended to fall under this provision, but as currently structured in the regulation, it applies to any remediation under the Statewide health standard. The proposed amendment places this provision within the structure of the requirements for petroleum releases without full site characterization where it was originally intended to be.

Appendix A, Tables 1—5

Since November 24, 2001, when the previous amendment was finalized, toxicology information in the references stated in § 250.605 (relating to sources of toxicity information) and physical and chemical property data listed in Table 5 have been revised for some substances. Additionally, some substances that were not listed in

Tables 1—5, but that now have toxicology information available were recommended for inclusion in Tables 1—5 by the CSSAB. Some of these substances had previously been on Table 6, Threshold of Regulation MSCs; these substances have been moved to the appropriate Tables 1—5. Typographical errors were corrected.

F. Benefits, Costs and Compliance

Benefits

The Department and Board are required to update the cleanup standard concentration values and the associated toxicological data in a timely manner to assure that environmental response actions at contaminated sites are remediated based on the current EPA guidance and current toxicological information.

Meeting this responsibility in these proposed amendments assures the protection of the public health and environment relating to exposure to regulated substances where it has been determined that lower concentrations of a regulated substances are required to meet the standards established by the statute.

These proposed amendments also avoid unnecessary expense for remediators when remediating contaminated property where it has been determined that higher concentrations of regulated substances are protective and meet the standards established by the statute.

Compliance Costs

These technical amendments to this chapter will affect owners, operators and purchasers of properties and facilities who volunteer or are required to perform remediation of contaminated sites.

These changes are not expected to add any significant costs to the cleanup of contaminated sites under this program. Some cleanup standard concentration values will be lower and some will be higher. The net cost should be negligible.

Compliance Assistance Plan

The Department has regularly provided the regulated public with workshops to explain new regulations, guidance and policy. These are conducted on an average of every 1 to 2 years. Workshops will be planned to coincide with the finalization of this rule.

Paperwork Requirements

No forms or reports are required beyond those established by Act 2.

G. Pollution Prevention

As this program assumes pollution has taken place, minimizing the release is not an option. However, in remediating a site, potential sources of pollution are often removed to attain the Land Recycling Act standards, thus eliminating or minimizing the potential for future exposure to regulated substances.

H. Sunset Review

These regulations will be reviewed in accordance with the sunset review schedule published by the Department to determine whether the regulations, effectively fulfill the goals for which they were intended.

I. Regulatory Review

Under section 5(a) of the Regulatory Review Act (71 P. S. § 745.5(a)), on February 24, 2010, the Department submitted a copy of these proposed amendments to the Independent Regulatory Review Commission (IRRC) and the House and Senate Environmental Resources and

Energy Committees (Committees). In addition to submitting the proposed amendments, the Department has provided IRRC and the Committees with a copy of a detailed Regulatory Analysis Form prepared by the Department. A copy of this material is available to the public upon request.

Under section 5(g) of the Regulatory Review Act, IRRC may convey any comments, recommendations or objections to the proposed amendments within 30 days of the close of the public comment period. The comments, recommendations or objections must specify the regulatory review criteria that have not been met. The Regulatory Review Act specifies detailed procedures for review of these issues by the Department, the General Assembly and the Governor prior to final publication of the regulations.

J. Public Comments

Written Comments: Interested persons are invited to submit comments, suggestions or objections regarding the proposed regulation to the Environmental Quality Board, P. O. Box 8477, Harrisburg, PA 17105-8477 (express mail: Rachel Carson State Office Building, 16th Floor, 400 Market Street, Harrisburg, PA 17101-2301). Comments submitted by facsimile will not be accepted. Comments, suggestions or objections must be received by the Board by April 5, 2010. Interested persons may also submit a summary of their comments to the Board. The summary may not exceed one page in length and must also be received by the Board by April 5, 2010. The one-page summary will be provided to each member of the Board in the agenda packet distributed prior to the meeting at which the final-form regulation will be considered.

Electronic Comments: Comments may be submitted electronically to the Board at RegComments@state.pa.us and must also be received by the Board by April 5, 2010. A subject heading of the proposal and a return name and address must be included in each transmission. If the sender does not receive an acknowledgement of electronic comments within 2 working days, the comments should be retransmitted to ensure receipt.

 $\begin{array}{c} {\rm JOHN\; HANGER}, \\ {\it Chairperson} \end{array}$

Fiscal Note: 7-453. No fiscal impact; (8) recommends adoption.

Annex A

TITLE 25. ENVIRONMENTAL PROTECTION PART I. DEPARTMENT OF ENVIRONMENTAL PROTECTION

Subpart D. ENVIRONMENTAL HEALTH AND SAFETY

ARTICLE VI. GENERAL HEALTH AND SAFETY CHAPTER 250. ADMINISTRATION OF LAND RECYCLING PROGRAM

Subpart A. General Provisions

§ 250.1. Definitions.

In addition to the words and terms defined in the act, the following words and terms, when used in this chapter, have the following meanings, unless the context clearly indicates otherwise:

* * * * *

EQL—Estimated quantitation limit. The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during

routine laboratory operating conditions. The EQL is generally 5 to 10 times the MDL (method detection limit). However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the EQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample EQLs are highly matrix dependent. The EQLs in the EPA publication Test Methods for Evaluating Solid Waste, Physical/Chemical Methods [SW-846] are provided for guidance and may not always be achievable.

* * * * *

Environmental covenant—A servitude arising under an environmental response project which imposes activity and use limitations.

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NPDES—National Pollutant Discharge Elimination System. The National system for the issuance of permits under section 402 of the Federal Clean Water Act (33 U.S.C.A. § 1342) including a state or interstate program which has been approved in whole or in part by the EPA.

PQL—Practical quantitation limit. The lowest limit that can be reliably achieved within specified limits of precision and accuracy under routine laboratory conditions for a specified matrix and based on quantitation, precision and accuracy, normal operation of a laboratory and the practical need in a compliance-monitoring program to have a sufficient number of laboratories available to conduct the analyses.

* * * * *

§ 250.11. Periodic review of MSCs.

The Department will review new scientific information that relates to the basis of the MSCs as it becomes available and will propose appropriate changes for the consideration of the EQB as necessary, but in no case more than 36 months after the effective date of the most recently promulgated MSCs.

Subchaptor C. Statewide Health Standards § 250.301. Scope.

* * * * *

(b) This subchapter sets forth generic Statewide health standards for regulated substances determined by the EPA to be mutagens. Tables 1—4 contain Statewide health standards based upon the methodology for mutagens in §§ 250.306 and 250.307 (relating to ingestion numeric values; and inhalation numeric values) for the following substances classified as mutagens:

CAS Number
56-55-3
92-87-5
50-32-8
205-99-2
207-08-9
218-01-9
53-70-3
96-12-8

Regulated Substance	CAS Number
Indeno[1,2,3-cd]pyrene	193-39-5
Methylene bis(2-chloroaniline), 4,4'-	101-14-4
Nitrosodiethylamine, n-	55-18-5
Nitrosodimethylamine, n-	62-75-9
Nitroso-n-ethylurea, n-	759-73-9
Vinyl chloride	75-01-4

- (c) This subchapter sets forth minimum threshold MSCs for soil and groundwater that shall be met to demonstrate attainment of the Statewide health standards for regulated substances in Appendix A, Table 6. Minimum threshold MSCs are standards developed for regulated substances for which no chemical-specific toxicological data exist.
- [(c)](d)) For regulated substances which do not have an MSC for the relevant medium on Appendix A, Tables 1—4 or 6, the background standard or site-specific standard shall be met to qualify for a release of liability under the act.
- § 250.303. Aquifer determination; current use and currently planned use of aquifer groundwater.

* * * * *

(d) If the Department determines that groundwater is not used or currently planned to be used, the following requirements apply within the area identified in subsection (b):

* * * * *

- (3) The remediator shall establish institutional controls to maintain the integrity of the nonuse aquifer determination, or include a postremediation care plan in the final report detailing the process of routinely assessing and reporting to the Department compliance with subsection (c).
- (i) Postremediation care plan provisions shall be [acknowledged within the deed to the remediated property upon transfer of ownership] implemented through an environmental covenant to ensure compliance with subsection (c).

§ 250.304. MSCs for groundwater.

* * * * *

(c) The MSCs for regulated substances contained in groundwater in aquifers used or currently planned to be used for drinking water or for agricultural purposes is the MCL as established by the Department or the EPA (U. S. EPA, 1996. Drinking Water Regulations and Health Advisories | as established in § 109.202 (relating to state MCLs, MRDLs and treatment technique requirements) and Health Advisory Levels (HAL) set forth in EPA Office of Water Publication **EPA 822-R-96-001)** No. EPA 822-R-06-013. For a regulated substance where no MCL has been established, the MSC is the lifetime | health advisory level (| HAL [)] for that compound. For a regulated substance where neither an MCL nor a lifetime HAL [is] has been established, the MSC is the lowest concentration calculated using the appropriate residential and nonresidential exposure assumptions and the equations in §§ 250.306 and 250.307 (relating to ingestion numeric values; and inhalation numeric values). New or revised MCLs or HALs promulgated by the Department or the EPA shall become effective immediately for any demonstration of attainment completed after the date the new or revised MCLs or HALs become effective.

* * * * *

(h) The methodology used by the Department for calculating the MSCs for groundwater does not address the vapor intrusion exposure pathway. Therefore, to demonstrate attainment under the act for the vapor intrusion exposure pathway the remediator shall address the vapor intrusion exposure pathway in accordance with section 304(f)(4) of the act (35 P.S. § 6026.304(f)(4)) and Subchapter D (relating to site-specific standard), or in accordance with technical guidance published by the Department addressing vapor intrusion into buildings from groundwater and soil under the Statewide health standard.

§ 250.305. MSCs for soil.

* * * * *

(h) The methodology used by the Department for calculating the MSCs for soil does not address the vapor intrusion exposure pathway. Therefore, to demonstrate attainment under the act for the vapor intrusion exposure pathway the remediator shall address the vapor intrusion exposure pathway in accordance with section 304(f)(4) of the act (35 P. S. \$ 6026.304(f)(4)) and Subchapter D (relating to site-specific standard), or in accordance with technical guidance published by the Department addressing vapor intrusion into buildings from groundwater and soil under the Statewide health standard.

(Editor's Note: For the equations that are being modified in §§ 250.306 and 250.307, the original equation is

shown as being deleted in its entirety. The modified equation is shown immediately below the equation it replaces, and for clarity and ease of reading it is in normal bold type.)

§ 250.306. Ingestion numeric values.

(a) For a regulated substance which is a systemic toxicant, the ingestion numeric value for that substance was calculated using the appropriate residential or non-residential exposure assumptions from subsection (d) according to the following equation:

$$[MSC = \frac{THQ \times RfD_o \times BW \times AT_{DC} \times 365 \text{ days/year}}{Abs \times EF \times ED \times IngR \times CF]}$$

$$\frac{\text{MSC = } \frac{\text{THQ} \times \text{RfDo} \times \text{BW} \times \text{ATnc} \times 365 \text{ days/year}}{\text{Abs} \times \text{EF} \times \text{ED} \times \text{IngR} \times \text{CF}}$$

(b) For a regulated substance which is a carcinogen, the ingestion numeric value for that substance was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following [equation] equations:

$$[MSC = \frac{TR \times AT_c \times 365 \text{ days/year}}{CSF_o \times Abs \times EF \times ED \times IF_{adj} \times CF}]$$

(1) For regulated substances not identified as a mutagen in § 250.301(b) (relating to scope):

$$MSC = \frac{TR \times ATc \times 365 \text{ days/year}}{CSFo \times Abs \times EF \times IFadj \times CF}$$

(2) For regulated substances identified as a mutagen, except for vinyl chloride, in § 250.301(b):

$$MSC = \frac{TR \times ATc \times 365 \text{ days/year}}{CSFo \times Abs \times EF \times AIFadj \times CF}$$

(3) For vinyl chloride:

MSC = TR

 $[\ CSFo \times Abs \times EF \times IFadj \times CF \ / \ (ATc \times 365 \ days/year) \] + (CSFo \times Abs \times IRc \times CF/BWc)$

* * * * *

(d) The default exposure assumptions used to calculate the ingestion numeric values are as follows:

		Res	sidential	Nonresidential
Term		$Systemic^1$	Carcinogens ^{2,6}	(Onsite Worker)
THQ	Target Hazard Quotient	1	N/A	1
RfD _o	Oral Reference Dose (mg/kg-day)	Chemical-specific	N/A	Chemical-specific
BW	Body Weight (kg) Soil Groundwater	15 70	N/A	70 70
[AT _{DC}] ATnc	Averaging Time for systemic toxicants (yr) Soil Groundwater	6 30	N/A N/A	25 25
Abs	Absorption (unitless) ³	1	1	1
EF[⁵]	Exposure Frequency (d/yr) Soil Groundwater	250 350	250 350	180 250

			Residential	Nonresidential
Term		Systemic ¹	Carcinogens ^{2,6}	(Onsite Worker)
ED	Exposure Duration (yr) Soil Groundwater	6 30	N/A N/A	25 25
IngR	Ingestion Rate Soil (mg/day) GW (L/day)	100	N/A N/A	50 1
CF	Conversion Factor Soil (kg/mg) GW (unitless)	1 × 10 ⁻⁶	1 × 10 ⁻⁶	1 × 10 ⁻⁶
TR	Target Risk	N/A	1 × 10 ⁻⁵	N/A
[CSF _o] CSFo	Oral Cancer Slope Factor (mg/kg-day) ⁻¹	N/A	Chemical-specific	Chemical-specific
[At _c] ATc	Averaging Time for carcinogens (yr)	N/A	70	70
[If _{adj}] IFadj ⁴	Ingestion Factor Soil (mg-yr/kg-day) GW (L-yr/kg-day)	N/A	57.1 1.1	17.9 0.4
AIFadj ⁵	Combined Age-Dependent Adjustment Factor and Ingestion Factor Soil (mg-yr/kg- day) GW (L-yr/kg- day)	N/A	245 3.39	N/A

Notes:

 $^{5}[$ In cases where the inhalation RfD or CSF is based on absorbed dose, this factor can be applied in the exposure algorithm. The default value is 1] The Combined Age-Dependent Adjustment Factor and Ingestion Factor (AIFadj) for the residential scenario is calculated using the equation AIFadj = [ADAF $_{<2}$ × ED $_{<2}$ + (ADAF $_{2-6}$ × ED $_{2-6}$] × IRc / BWc + [(ADAF $_{>6-16}$ × ED $_{>6-16}$ + (ADAF $_{>16}$ × ED $_{>16}$)] × IRa / BWa, where ADAF $_{<2}$ = 10, ED $_{<2}$ = 2 yr, ADAF $_{2-6}$ = 3, ED $_{2-6}$ = 4 yr, IRc = 100mg/day for soils and 1 L/day for groundwater, BWc = 15 kg, ADAF $_{>6-16}$ = 3, ED $_{>6-16}$ = 10 yr, ADAF $_{>16}$ 1, ED $_{>16}$ = 14 yr, IRa = 50 mg/day for soils and 2 L/day for groundwater, and BWa = 70 kg.

 6 For the equation to calculate the vinyl chloride residential MSC based on the carcinogenic effect, IRc = 100 mg/day for soils and 1 L/day for groundwater, BWc = 15 kg.

§ 250.307. Inhalation numeric values.

(a) For a regulated substance which is a systemic toxicant, the following applies:

(1) For a volatile compound, the numeric value for inhalation from soil shall be calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equation using TF for volatiles:

$$[MSC = \frac{THQ \times RfD_i \times BW \times AT_{nc} \times 365 \text{ days/year} \times TF}{Abs \times ET \times EF \times ED \times IR }]$$

$$MSC = \frac{THQ \times RfCi \times ATnc \times 365 \text{ days/year} \times TF}{ET \times EF \times ED}$$

(2) For a regulated substance attached to particulates, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the

¹ Residential exposure to noncarcinogens is based on childhood (ages 1-6) exposure for soil, and adult exposure for groundwater, consistent with USEPA (1991).

² Residential exposure to carcinogens is based on combined childhood and adult exposure.

³ The oral absorption factor takes into account absorption and bioavailability. In cases where the oral RfD or CSF is based on administered oral dose, the absorption factor would be limited to bioavailability. The default value is 1.

 $^{^4}$ The Ingestion Factor for the residential scenario is calculated using the equation If $_{\rm adj}$ = ED $_{\rm c}$ × IR /BW $_{\rm c}$ + ED $_{\rm a}$ × IR a/Bw $_{\rm a}$, where ED $_{\rm c}$ = 6 yr, IRc = 100 mg/day for soils and 1 L/day for groundwater, BW $_{\rm c}$ = 15 kg, ED $_{\rm a}$ = 24 yr, IR $_{\rm a}$ = 50 mg/day for soils and 2 L/day for groundwater, and BW $_{\rm a}$ = 70 kg. The ingestion factor for the nonresidential scenario is calculated using the equation If $_{\rm adj}$ = ED × IR/BW, where ED = 25 yr, IR = 50 mg/day for soils and 1 L/day for groundwater, and BW = 70 kg.

equation in paragraph (1) using TF for particulates.

- (b) For a regulated substance which is a carcinogen, the following apply:
- (1) For a volatile compound, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equation using TF for volatiles:

$$[MSC = \frac{TR \times AT_c \times 365 \text{ days/year} \times TF}{CSF_i \times Abs \times ET \times EF \times If_{adj}]}$$

$$MSC = \frac{TR \times ATc \times 365 \text{ days/year} \times 24 \text{ hr/day} \times TF}{IUR \times ET \times EF \times ED \times CF}$$

(2) For a regulated substance attached to particulates, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the equation in paragraph (1) using TF for particulates.

(3) For a regulated substance identified in \$250.301(b) (relating to scope) as a mutagen, except for vinyl chloride, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equation using the TF for volatiles:

$$MSC = \frac{TR \times ATc \times 365 \text{ days/year} \times 24 \text{ hr/day} \times TF}{IUR \times ET \times EF \times AED \times CF}$$

(4) For vinyl chloride, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equation using the TF for volatiles:

MSC =	TR
	$ [\text{ IUR} \times \text{ET} \times \text{EF} \times \text{ED} \times \text{CF} / (\text{ATe} \times 365 \text{days/yr} \times 24 \text{hr/d} \times \text{TF})] + (\text{IUR} \times \text{CF} \times \text{TF}) $

(d) The default exposure assumptions used to calculate the inhalation numeric values for soil are as follows:

		Res	sidential	Nonresidential
Term		$Systemic^1$	Carcinogens ²	(Onsite Worker)
THQ	Target Hazard Quotient	1	N/A	1
[RfD _i] RfCi	Inhal. Reference [Dose (mg/kg-day)] Concentration (mg/m³)	Chemical-specific	N/A	Chemical-specific
[BW]	[Body Weight (kg)]	[70]	[N/A]	[70]
[AT _{nc}] ATnc	Averaging Time for systemic toxicants (yr)	30	N/A	25
TF	Transport Factor (mg/kg)/(mg/m³) Volatilization³ Particulate ⁴	Chemical-specific 1×10^{10}	Chemical-specific 1×10^{10}	Chemical-specific 1×10^{10}
[Abs]	[Absorption (unitless) ⁵]	[1]	[1]	[1]
ET	Exposure Time (hr/day)	24	24	8
EF	Exposure Frequency (d/yr)	250	250	180
ED	Exposure Duration (yr)	30	N/A	25
CF	Conversion Factor	1,000 µg/mg	1,000 µg/mg	1,000 µg/mg
[IR]	[Inhalation Rate (m³/hr)]	[0.8 ³]	[N/A]	[1.25]
TR	Target Risk	N/A	1 × 10 ⁻⁵	1 × 10 ⁻⁵
[CSF _i] IUR	Inhalation [Cancer Slope Factor (mg/kg-day)]Unit Risk (µg/m³)-1	N/A	Chemical-specific	Chemical-specific

			Residential	Nonresidential
Term		Systemic ¹	Carcinogens ²	(Onsite Worker)
[AT _c] ATc	Averaging Time for carcinogens (yr)	N/A	70	70
[If _{adj}]	[Inhalation Factor ⁷ (m ³ -yr/kg-hr)]	[N/A]	[0.5]	[0.4]
AED	Combined Age-Dependent Adjustment Factor and Exposure Duration (yr) ⁶	N/A	76	N/A

Notes: Modified from USEPA Region III Risk-based Concentration Table, dated October 20, 1995.

N/A = Not Applicable

- ¹ Residential exposure to systemic toxicants is based on adult exposure, consistent with USEPA (1991).
- ² Residential exposure to carcinogens is based on combined child and adult exposure.
- 3 Volatilization transport factor is calculated using TF = (ER \times DF)-1, where DF = 12 (mg/m³)/(m²-sec). See soil depth-specific algorithm for the calculation of ER.
- ⁴ Particulate transfer factor was calculated using TF = $(ER \times DF)^{-1}$, where $ER = 8.25 \times 10^{-12}$ (mg/m²-sec)/(mg/kg) and DF = $12(\text{mg/m}^3)/(\text{mg/m}^2\text{-sec})$.
- [⁵ In cases where the inhalation RfD or CSF is based on absorbed dose, this factor can be applied in the exposure algorithm. The default value is 1.]
- ¹⁶⁾⁵ Assumes approximately 100 days/yr with the ground being frozen. Exposure to surficial soils when the ground is frozen is considered *de minimis*. The nonresidential exposure frequency is defined as $5/7 \times 250$ days/yr.
- [7 The inhalation factor for the residential scenario is calculated using the equation IF $_{\rm adj}$ = ED $_{\rm c}$ × IR $_{\rm c}/BW_{\rm c}$ + ED $_{\rm a}$ × IR $_{\rm a}/BW_{\rm a}$, where ED $_{\rm c}$ = 6 yr, IR $_{\rm c}$ = 0.5 m³/hr, BW $_{\rm c}$ = 15kg, ED $_{\rm a}$ = 24 yr, IR $_{\rm a}$ = 0.83 m³/hr, and BW $_{\rm a}$ = 70 kg. The inhalation factor for the nonresidential scenario is calculated using the equation IF $_{\rm adj}$ = ED × IR/BW, where ED = 25 yr, IR = 1.25 m³/hr and BW = 70 kg.]
- 6 The Combined Age-Dependent Adjustment Factor and Exposure Duration (AED) is calculated using the equation AED = ADAF $_{<2}$ × ED $_{<2}$ + ADAF $_{<16}$ × ED $_{<2.16}$ + ADAF $_{<16}$, where ADAF $_{<2}$ = 10, ED $_{<2}$ = 2 yr, ADAF $_{<16}$ = 3, ED $_{<16}$ = 14 yr, ADAF $_{>16}$ = 1, ED $_{>16}$ = 14 yr.

* * * * *

(f) For a regulated substance which is a systemic toxicant and is a volatile compound, the numeric value for the inhalation of volatiles from groundwater was calculated by using the appropriate residential or nonresidential exposure assumptions from subsection (h) according to the following equation:

$$[MSC = \frac{THQ \times RfDi \times BW \times ATnc \times 365 \text{ days/yr}}{Abs \times ET \times EF \times ED \times IR \times TF]}$$

$$MSC = \underline{THQ \times RfC \times ATnc \times 365 \text{ days/year} \times 24 \text{ hr/day}}$$

$$ET \times EF \times ED \times TF$$

(g) For a regulated substance which is a carcinogen and is a volatile compound, the numeric value for the inhalation of volatiles from groundwater shall be calculated by using the appropriate residential or nonresidential exposure assumptions from subsection (h) according to the following [equation] equations:

$$[MSC = \frac{TR \times ATc \times 365 \text{ days/yr}}{CSFi \times ABs \times ET \times EF \times IFadj \times TF}]$$

(1) For regulated substances not identified as a mutagen in § 250.301(b):

$$MSC = \frac{TR \times ATc \times 365 \text{ days/year}}{IUR \times ET \times EF \times ED \times TF \times CF}$$

(2) For regulated substances identified as a mutagen, except for vinyl chloride, in § 250.301(b):

$$MSC = \frac{TR \times ATc \times 365 \text{ days/year} \times 24 \text{ hr/day}}{IUR \times ET \times EF \times AED \times TF \times CF}$$

(3) For vinyl chloride:

$$MSC = \frac{TR}{\left[(IUR \times ET \times EF \times ED \times TF \times CF) / (ATc \times 365 \text{ days/year} \times 24 \text{ hr/day}) \right] + (IUR \times TF \times CF)}$$

(h) The default exposure assumptions used to calculate the inhalation numeric values for the inhalation of volatiles from groundwater are as follows:

		Res	sidential	Nonresidential
Term		$Systemic^1$	Carcinogens ²	(Onsite Worker)
THQ	Target Hazard Quotient	1	N/A	1
[RfD _i] RfC	Inhal. Reference [Dose (mg/kg-day)] Concentration (mg/m³)	Chemical-specific	N/A	Chemical-specific
[BW]	[Body Weight (kg)]	[70]	[N/A]	[70]
[AT _{ne}]ATne	Averaging Time for systemic toxicants (yr)	30	N/A	25
[Abs]	[Absorption (unitless) ³]	[1]	[1]	[1]
ET	Exposure Time (hr/day)	24	24	8
EF	Exposure Frequency ⁶ (d/yr)	350	350	250
ED	Exposure Duration (yr)	30	[N/A] 30	25
[IR]	[Inhalation rate (m³/hr)]	[0.625]	[N/A]	[1.25]
TF	Transfer Factor (L/m ³) ^{[4]3}	0.5	0.5	0.5
CF	Conversion Factor	N/A	1,000 µg/mg	1,000 µg/mg
TR	Target Risk	N/A	1 × 10 ⁻⁵	1 × 10 ⁻⁵
[CSF _i] IUR	Inhalation [Cancer Slope Factor (mg/kg-day) ⁻¹] Unit Risk (ug/m ³) ⁻¹	N/A	Chemical-specific	Chemical-specific
[AT _c] ATc	Averaging Time for carcinogens (yr)	N/A	70	70
[IF _{adj}]	[Inhalation Factor ⁵ (m³-yr/kg-hr)]	[N/A]	[0.4]	[0.4]
AED	Combined Age-Dependent adjustment Factor and Exposure Duration (yr) ⁴	N/A	76	N/A

Notes: Modified from USEPA Region III Risk-based Concentration Table, dated October 20, 1995.

N/A = Not Applicable

¹ Residential exposure to systemic toxicants is based on adult exposure, consistent with USEPA (1991).

² Residential exposure to carcinogens is based on combined child and adult exposure.

^{[&}lt;sup>3</sup> In cases where the inhalation RfD or CSF is based on absorbed dose, this factor can be applied in the exposure algorithm.]

^{[4]3} Default Transfer Factor is as presented in USEPA's RAGS, Part B.

 $^{^5[}$ The inhalation factor for the residential scenario is calculated using the equation IF $_{\rm adj}$ = ED $_{\rm c}$ × IR $_{\rm c}/BW_{\rm c}$ + ED $_{\rm a}$ × IR $_{\rm a}/Bw_{\rm a}$, where ED $_{\rm c}$ = 6 yr, IR $_{\rm c}$ = 0.5 m³/hr, BW $_{\rm c}$ = 15 kg, ED $_{\rm a}$ = 24 yr, IR $_{\rm a}$ = 0.625 m³/hr, and BW $_{\rm a}$ = 70 kg. The inhalation factor for the nonresidential scenario is calculated using the equation IF $_{\rm adj}$ = ED × IR/BW, where ED = 25 yr, IR = 1.25 m³/hr and BW = 70 kg] The Combined Age-Dependent Adjustment Factor and Exposure Duration (AED) is calculated using the equation AED = ADAF $_{\rm <2}$ × ED $_{\rm <2}$ + ADAF $_{\rm <2}$ × ED $_{\rm <2}$ + ADAF $_{\rm <16}$ × ED $_{\rm <16}$ = 14 yr. ADAF $_{\rm <16}$ = 1, ED $_{\rm <16}$ = 14 yr.

- § 250.308. Soil to groundwater pathway numeric values.
- (a) A person may use the soil-to-groundwater pathway numeric values listed in Appendix A, [Table] Tables 3B and 4B, as developed using the methods contained in paragraph (1), (2) or (4), may use a concentration in soil at the site which does not produce a leachate in excess of the MSC for groundwater contained in Appendix A, Tables 1 and 2, when subjected to the Synthetic Precipitation Leaching Procedure (Method 1312 of SW-846, Test Methods for Evaluating Solid Waste, promulgated by the U. S. EPA), or may use the soil-to-groundwater pathway soil buffer criteria in subsection (b) or may use the soil-to-groundwater pathway equivalency demonstration in subsection (d).

Subchapter D. Site-Specific Standard § 250.407. Point of compliance.

* * * * *

- (e) [For attainment of soil-to-groundwater standards in both residential and nonresidential areas, the point of compliance is throughout the soil column.
- (f) J For the emission of regulated substances to outdoor air, the point of compliance for the air quality standard shall be as specified in the air quality regulations. See Article III (relating to air resources).

Subchapter F. Exposure And Risk Determinations § 250.605. Sources of toxicity information.

(a) For site-specific standards, the person shall use appropriate reference doses [and], reference concentrations, cancer slope factors and unit risk factors identified in Subchapter C (relating to Statewide health standards), unless the person can demonstrate that published data, available from one of the following sources, provides more current reference doses [or], reference concentrations, cancer slope factors or unit risk factors:

* * * * *

- (2) [Health Effects Assessment Summary Tables (HEAST).
- (3)] United States Environmental Protection Agency, National Center for Environmental Assessment (NCEA) Provisional Peer-Reviewed Toxicity Values (PPRTV).
- [(4) Agency for Toxic Substances and Disease Registry (ATSDR) Toxicological Profiles.
- (5) California EPA, California Cancer Potency Factors.
- (6) EPA criteria documents, including drinking water criteria documents, drinking water health advisory summaries, ambient water quality criteria documents and air quality criteria documents.
 - (3) Other sources
- (i) Health Effects Assessment Summary Tables (HEAST)
- (ii) Agency for Toxic Substances and Disease Registry (ATSDR) Toxicological Profiles.
- (iii) California EPA, California Cancer Potency Factors and Chronic Reference Exposure Levels.

(iv) EPA criteria documents, including drinking water criteria documents, drinking water health advisory summaries, ambient water quality criteria documents and air quality criteria documents.

* * * * *

Subchapter G. Demonstration of Attainment § 250.704. General attainment requirements for groundwater.

* * * * *

(d) For statistical methods under § 250.707(b)(2)(i) (relating to statistical tests), the demonstration of attainment for groundwater shall be based upon at least eight consecutive quarters of groundwater data, which may include characterization data. As an alternative, the Department may accept [four consecutive] fewer quarterly sampling events [or less] with written approval from the Department under the following conditions:

* * * * *

§ 250.707. Statistical tests.

* * * * *

- (b) The following statistical tests may be accepted by the Department to demonstrate attainment of the Statewide health standard. The statistical test for soil shall apply to each distinct area of contamination. The statistical test for groundwater will apply to each compliance monitoring well. Testing shall be performed individually for each regulated substance identified in the final report site investigation as being present at the site for which a person wants relief from liability under the act. The application of a statistical method [shall] must meet the criteria in subsection (d).
- (1) For soil attainment determination at each distinct area of contamination, subparagraph (i), (ii) or (iii) shall be met in addition to the attainment requirements in $\S\S~250.702$ and 250.703 (relating to attainment requirements; and general attainment requirements for soil).
- (iii) For sites with a petroleum release where full site characterization, as defined in § 250.204(b) (relating to final report), has not been done in association with an excavation remediation, attainment of the Statewide health standard shall be demonstrated using the following procedure:

* * * * *

(B) For sites not covered by clause (A), including all sites being remediated under an NIR under this chapter, samples shall be taken from the bottom and sidewalls of the excavation in a biased fashion that concentrates on areas where any remaining contamination above the Statewide health standard would most likely be found. The samples shall be taken from these suspect areas based on visual observation and the use of field instruments. If a sufficient number of samples has been collected from all suspect locations and the minimum number of samples has not been collected, or if there are no suspect areas, the locations to meet the minimum number of samples shall be based on a random procedure. The number of sample points required shall be determined in the following way:

(VI) For sites where there is a release to surface soils resulting in excavation of 50 cubic yards or

less of contaminated soil, samples shall be collected as described in this clause, except that two samples shall be collected.

(C) All sample results shall be equal to or less than the applicable Statewide health MSC as determined using Tables 1—4 and 6 in Appendix A.

[(iv) For sites where there is a release to surface soils resulting in excavation of 50 cubic yards or less of contaminated soil, samples shall be collected as described in subparagraph (iii)(B), except that two samples shall be collected.]

* * * * *

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	QUIFERS			
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	TDS > 2500	. 2500	NON-USE	NON-USE AQUIPERS
		œ	NR.	ď	NR	œ	N.
ACENAPHTHENE	83-32-9	2,200 G	3,800 S	3,800 S	3'800 S	3'800 S	3,800 S
ACENAPHTHYLENE	208-96-8	2,200 G	6,100 G	16,000 S	16,000 S	16,000 S	16,000 S
ACEPHATE	30560-19-1	D 9/	300 G	7,600 G	9 000'0E	5 92	300 G
ACETALDEHYDE	75-07-0	19 N	[52] <u>79</u> N	1,900 N	[5,200] N <u>7,900</u>	N 61	[52] <u>79</u> N
ACETONE	67-64-1	[3,700] G 33,000	[10,000] G 92,000	[370,000] G 3,300,000	[1,000,000] G 9,200,000	[37,000] G 330,000	[100,000] G 920,000
ACETONITRILE	75-05-8	[170] <u>130</u> N	[350] <u>530</u> N	[17,000] N <u>13,000</u>	[35,000] N <u>53,000</u>	[1,700] N 1,300	[3,500] N <u>5,300</u>
ACETOPHENONE	98-86-2	3,700 G	10,000 G	370,000 G	1,000,000 G	3,700 G	10,000 G
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	0.17 G	0.68 G	17 G	5 89 C	170 G	9 089 G
ACROLEIN	107-02-8	[0.055] <u>0.042</u> N	[0.12] <u>0.18</u> N	[5.5] <u>4.2</u> N	[12] <u>18</u> N	[0.55] <u>0.42</u> N	[1.2] <u>1.8</u> N
ACRYLAMIDE	79-06-1	[0.033] <u>0.038</u> N	[0.14] <u>0.19</u> N	N <u>8.5</u> [5.5]	[14] <u>19</u> N	[0.033] N 0.038	[0.14] <u>0.19</u> N
ACRYLIC ACID	79-10-7	[2.8] <u>2.1</u> N	N 8.8 [8.3]	[280] <u>210</u> N	N 088 [085]	[280] <u>210</u> N	[580] <u>880</u> N
ACRYLONITRILE	107-13-1	[0.63] <u>0.72</u> N	[2.7] <u>3.7</u> N	[63 <u>] 72</u> N	[270] <u>370</u> N	[63] <u>72</u> N	[270] <u>370</u> N
ALACHLOR	15972-60-8	2 M	2 M	M 002	M 200	2 M	2 M
ALDICARB	116-06-3	M <u>E</u> [7] 3 M	M <u>E</u> [7]	M <u>300</u> [700]	W <u>008</u> [004]	M [000,7] 3,000	[7,000] M 3,000
ALDICARB SULFONE	1646-88-4	2 M	2 M		200 M	2 M	2 M
ALDICARB SULFOXIDE	1646-87-3	4 M	4 M	400 M	400 M		
ALDRIN	309-00-2	[0.0087] [N] <u>0.039</u>	[0.037] [N] [N] [N] <u>0.15</u> G	<u>5</u> [N] <u>6℃</u> [∠8:0]	[3.7] <u>15</u> [N] <u>G</u>		[3.7] <u>20</u> [N] <u>S</u>
ALLYL ALCOHOL	107-18-6	[49] <u>0.63</u> N	[100] <u>2.6</u> N	[4,900] <u>63</u> N	[10,000] <u>260</u> N	[4,900] <u>63</u> N	[10,000] <u>260</u> N
AMETRYN	834-12-8	H 09	H 09				
AMINOBIPHENYL, 4-	92-67-1	0.031 G	0.12 G	3.1 G	12 G	31 G	120 G
AMITROLE	61-82-5	0.7 G	2.8 G	9 04	280 G	5 00Z	2,800 G
AMMONIA	7664-41-7	30,000 H	30,000 H	3,000,000 H	3,000,000 Н	30,000 Н	30,000 H
AMMONIUM SULFAMATE	0-90-824	2,000 H	2,000 H	200,000 H	200,000 H	2,000 H	2,000 H
ANILINE	62-53-3	[2.8] <u>2.1</u> N	N 8.8 [8.6]	[280] <u>210</u> N	[580] <u>880</u> N	[2.8] <u>2.1</u> N	[5.8] <u>8.8</u> N
ANTHRACENE	120-12-7	66 S	S 99	S 99	S 99	S 99	S 99
ATRAZINE	1912-24-9	3 M	3 M	W 008		3 M	- 1
AZINPHOS-METHYL (GUTHION)	86-50-0	<u>110</u> G	<u>310</u> G	11,000 G	31,000 G	110 G	310 G

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	QUIFERS		101	961111104	
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	TDS > 2500	2500	NON-03E	NON-USE AGOILERS	
		æ	NR.	æ	NR	R	NR	П
RAYGON (PROPOXUR)	114-26-1	3 H	3 H	н 008	300 H	н 000'є		_
١.	17804-35-2	1,800 G	2,000 S	2,000 S				ر ا
BENTAZON	25057-89-0	[1,100] <u>200</u> [G]	[3,100] <u>200</u> [G] <u>H</u>	[110,000] [G] 20,000 H	[310,000] [G] 20,000 H	[1,100] <u>200</u> [G] <u>H</u>	[3,100] <u>200</u> [G	<u>©</u> ∓I
BENZENE	71-43-2	5 M	5 M	200 M	200 M	200	V 005	Σ
BENZIDINE	92-87-5	[0.0029] G 0.00093	0.011 G	[0.29] <u>0.093</u> G	1.1 G			<u>ی</u>
BENZOJAJANTHRACENE	56-55-3	[0.9] <u>0.29</u> G	3.6 G	11 S	11 S	- 1		တ
BENZOJAJPYRENE	50-32-8	0.2 M	0.2 M	3.8 S	3.8 S	- 1		တ
BENZOIBIFLUORANTHENE	202-99-2	[0.9] <u>0.29</u> G	1.2 S	1.2 S			1	S
BENZOIGHIIPERYLENE	191-24-2	0.26 S	0.26 S	0.26 S	0.26 S	- 1	- 1	s
BENZOIKIFLUORANTHENE	207-08-9	0.55 S	0.55 S	0.55 S	0.55 S		1	S
BENZOIC ACID	65-85-0	150,000 G	410,000 G	2,700,000 S	2,700,000 S	150,000 G	- 1	ڻ
BENZOTRICHLORIDE	2-20-86	0.051 G	0.2 G	5.1 G			_	ڻ ا
BENZYL ALCOHOL	100-51-6	[11,000] G	[31,000] G	[1,100,000] G	[3,100,000] G 5,100,000	[11,000] G 18,000	[31,000] 51.000	
BENZVI CHI OBIDE	100-44-7	16,000 N 1111 N	[3.7] 5.1 N	[87] 100 N	[370] <u>510</u> N	[87] 100 N	l	z
BETA PROPIOI ACTONE	57-57-8		0.063 N	1.2 N	6.3 N	0.12 N	0.63	ZI
BHC AI PHA-	319-84-6	0.1 G	0.41 G	10 G	41 G	100 G	410 (ပ
BHC BETA-	319-85-7	0.37 G	1.4 G	37 G	100 S	100 S		s
IBHC, DELTA-1	[319-86-8]	[22] [6]	[61] [G]	[2,200] [G]	[6,100] [G]	[8,000] [S]	[8,000] [S]	<u>~</u>
BHC, GAMMA (LINDANE)	58-89-9	0.2 M	0.2 M	20 M		- 1	- 1	Σ
BIPHENYL, 1,1-	92-52-4	1,800 G	5,100 G	7,200 S	- 1	- 1	- 1	s
BIS(2-CHLOROETHOXY)METHANE	111-91-1	110 G	310 G	11,000 G			- 1	ଠା
BIS(2-CHLOROETHYL)ETHER	111-44-4	[0.13] <u>0.15</u> N	1 1	[13] <u>15</u> N		- 1		z
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	300 H	н оос	30,000 H	30,000 H	30,000 H	- 1	ΞĪ
BIS(CHLOROMETHYL)ETHER	542-88-1	N [69000.0] 0.00079	[0.0029] N 0.004	N [690.0] 0.079	[0.29] <u>0.4</u> N	[0.069] N <u>0.079</u>		z
BISI2-FTHYLHEXYLI PHTHALATE	117-81-7	W 9	9	290 S	290 S	290 S	- 1	S
BISPHENOL A	80-05-7	1,800 G	5,100 G	120,000 S	120,000 S	ł		s
BROMACIL	314-40-9	H 02 [08]	н 02 [08]	[8,000] H	[8,000] H	К80 <u>ј 70</u> Н	- 1	<u> </u>
BROMOCHLOROMETHANE	74-97-5	H 06	H 06	Н 000'6	Н 000'6	H 06	06	コ
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APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			JISED ADIIIEEDS	MIEEDS			
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	TDS > 2500	2500	NON-USE	NON-USE AQUIFERS
		œ	NR	æ	NR	æ	NR
BROMODICHLOROMETHANE	75-27-4	[100] <u>80</u> M	[100] <u>80</u> M	[10,000] M 8,000	[10,000] M <u>8,000</u>	[100] <u>80</u> M	[100] <u>80</u> M
BROMOMETHANE	74-83-9	10 H	10 H	1,000 H	1,000 H	1,000 H	1,000 H
BROMOXYNIL	1689-84-5	730 G	2,000 G	73,000 G	130,000 S	730 G	2,000 G
BROMOXYNIL OCTANOATE	1689-99-2	S 08	S 08	80 S	S 08	S 08	80 S
BUTADIENE, 1,3-	106-99-0	[0.15] <u>0.19</u> [N]	[0.65] <u>0.76</u> [N]	[15] <u>19</u> [N]	[65] <u>76</u> [N]	[0.15] <u>19</u> [N]	[0.65] <u>76</u> [N]
BUTYL ALCOHOL, N-	71-36-3	[970] <u>3,700</u> [N]	[2,000] [N] 10,000 G	[97,000] [N] 370,000 G	[200,000] [N] 1,000,000 G	[9,700] [N] 37,000 G	[20,000] [N] 100,000 G
BUTYLATE	2008-41-5	[350] <u>400</u> H	[350] 400	[35,000] H 40,000	[35,000] H 40,000	[350] <u>400</u> H	[350] <u>400</u> H
BUTYLBENZENE, N-	104-51-8	1,500 G	4,100 G	15,000 S	15,000 S	1,500 G	4,100 G
BUTYLBENZENE, SEC-	135-98-8	1,500 G	4,100 G	17,000 S	17,000 S	1,500 G	4,100 G
BUTYLBENZENE, TERT-	9-90-86	1,500 G	4,100 G	30,000 S	30,000 S	1,500 G	4,100 G
BUTYLBENZYL PHTHALATE	85-68-7	[2,700] <u>350</u> [S]	[2,700] [S] 1,400 G	2,700 S	2,700 S	2,700 S	2,700 S
CAPTAN	133-06-2	[190] <u>290</u> G	S 009	S 009	S 009	S 009	S 009
CARBARYL	63-25-2	[700] <u>3,700</u> [H]	[700] H] 10,000 G	[70,000] [H] 120,000 S	[70,000] [H] 120,000 S	120,000 S	120,000 S
CARBAZOLE	86-74-8	33 G	130 G	1,200 S	1,200 S	1,200 S	1,200 S
CARBOFURAN	1563-66-2	40 M	40 M	4,000 M	4,000 M	40 M	
CARBON DISULFIDE	75-15-0	N <u>005,1</u> [006,1]	[4,100] N 6,200	[190,000] N 150,000	[410,000] N 620,000	[1,900] N <u>1,500</u>	[4,100] N 6,200
CARBON TETRACHLORIDE	56-23-5	2 M	5 M	500 M	200 M	50 M	
CARBOXIN	5234-68-4			- 1	- 1	- 1	
CHLORAMBEN	133-90-4	100 H	100 H	10,000 H	- 1		
CHLORDANE	57-74-9	2 M	2 M	56 S		56 S	
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	[140,000] N 110,000	[290,000] N 440,000	1,400,000 S	1,400,000 S	[140,000] N 110,000	[290,000] N 440,000
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	[2.8] <u>2.1</u> N	[5.8] <u>8.8</u> N	[280] <u>210</u> N	N <u>880</u> N	[280] <u>210</u> N	
CHLOROACETOPHENONE, 2-	532-27-4	[0.31] <u>1.1</u> G	[0.88] <u>3.1</u> G		[88] <u>310</u> G	[310] <u>1,100</u> G	
CHLOROANILINE, P-	106-47-8	[150] <u>3.3</u> G	[410] <u>13</u> G	[15,000] <u>330</u> G	[41,000] G 1,300	[150] <u>3.3</u> G	[410] <u>13</u> G
CHLOROBENZENE	108-90-7	100 M	100 M	10,000 M	10,000 M	10,000 M	10,000 M
All concentrations in µg/L R = Residential NR = Non-Residential M = Maximum Contaminant Level	H = Lifetim G = Ingest N = Inhala	H = Lifetime health advisory level G = Ingestion N = Inhalation	evel				
	S = Ague	us solubility can					

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	NIFERS			
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	< SQT	TDS > 2500	NON-OSE	NON-USE AQUITERS
		٣	NR	æ	NR.	œ	A.
CHLOROBENZILATE	510-15-6	[2.4] <u>6</u> G	[9.6] <u>24</u> G	[240] <u>600</u> G	[960] <u>2,400</u> G	[2,400] G 6,000	[9,600] G 13,000
CHLOROBUTANE, 1-	109-69-3	[15,000] G 1,500	[41,000] G 4,100	[680,000] [S] 150,000 G	[680,000] [S] 410,000 G	[15,000] G 1,500	[41,000] G 4,100
CHLORODIBROMOMETHANE	124-48-1	[100] <u>80</u> M	[100] <u>80</u> M	[10,000] M 8,000	[10,000] M 8,000	[10,000] M 8,000	[10,000] M 8,000
CHLORODIFLUOROMETHANE	75-45-6	75-45-6 [100] <u>110,000</u> [H]	[100] [H] 440,000 N	[10,000] [H] 2,900,000 S	[10,000] [H] <u>2,900,000</u> S	[100] [H] 110,000 N	[100] [H] 440,000 N
CHLOROETHANE	75-00-3	230 G	9 006	23,000 G	5 000'06 E	23,000 G	90,000 G
CHLOROFORM	67-66-3	[100] <u>80</u> M	[100] <u>80</u> M	[10,000] M <u>8,000</u>	[10,000] M <u>8,000</u>	[1,000] <u>800</u> M	[1,000] <u>800</u> M
CHLORONAPHTHALENE, 2-	91-58-7	2,900 G	8,200 G	12,000 S	12,000 S	2,900 G	8,200 G
CHLORONITROBENZENE, P-	100-00-5	37 G	[140] <u>100</u> G	3,700 G	[14,000] G 10,000	37 G	[140] <u>100</u> G
CHLOROPHENOL, 2-	92-21-8	40 H	40 H	4,000 H	4,000 H	40 H	40 H
CHLOROPRENE	126-99-8	[19] <u>15</u> N	[41] <u>62</u> N	[1,900] N 1,500	[4,100] N <u>6,200</u>	[1,900] N 1,500	[4,100] N 6,200
CHLOROPROPANE, 2-	75-29-6	[280] <u>210</u> N	N 088 [085]	[28,000] N <u>21,000</u>	000'88 N [000'88]	[280] <u>210</u> N	N <u>880</u> N
CHLOROTHALONIL	1897-45-6	[60] <u>210</u> G	[240] <u>600</u> [G] S	S 009	S 009	[60] <u>210</u> G	[240] <u>600</u> [G]
CHLOROTOLUENE, O-	95-49-8	100 H	100 H	10,000 H	10,000 H	100 H	
CHLOROTOLUENE, P.	95-49-8	100 H	100 H	10,000 H	10,000 H	100 H	100 H
CHLORPYRIFOS	2921-88-2	[20] 2 H	[20] <u>2</u> H	[1,100] <u>200</u> [S] <u>H</u>	_	[20] <u>2</u> H	[20] <u>2</u> H
CHLORSULFURON	64902-72-3	1,800 G	5,100 G	[130,000] [S] [80,000 G	[130,000] S <u>190,000</u>	1,800 G	5,100 G
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	[400] <u>70</u> H	H 02 [00+]	S 009	200 S	S 009	200 S
CHRYSENE	218-01-9	1.9 S	1.9 S	S 6'1	1.9 S	1.9 S	1.9 S
CRESOLS	1319-77-3	180 G	510 G				
CRESOL, 4,6-DINOTRO-O-	534-52-1	3.7 G	<u> 10</u> G	- 1		3,700 G	10,000 G
CRESOL, 0- (METHYLPHENOL, 2-)	95-48-7	1,800 G	- 1	- 1		- 1	
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	1,800 G	5,100 G	180,000 G	- 1		
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	180 G	510 G	18,000 G	51,000 G	180,000 G	510,000 G

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AC	USED AQUIFERS			
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	< SQT	TDS > 2500	NON-USE	NON-USE AQUIPERS
		æ	N.	œ	NR.	œ	NR.
CRESOL, P-CHLORO-M-	29-20-7	180 G	510 G	18,000 G	51,000 G	180 G	510 G
CROTONALDEHYDE	4170-30-3	[0.079] <u>0.35</u> [N]	[0.34] <u>1.4</u> [N]	[7.9] <u>35</u> [N]	[34] <u>140</u> [N]	[7.9] <u>35</u> [N]	[34] <u>140</u> [N]
CROTONALDEHYDE, TRANS-	123-73-9	[0.079] <u>0.35</u> [N] <u>G</u>	[0.34] <u>1.4</u> [N]	[7.9] <u>35</u> [N] <u>S</u>	[34] <u>140</u> [N]	[7.9] <u>35</u> [N] <u>S</u>	[34] <u>140</u> [N]
CUMENE (ISOPROPYL BENZENE)	98-82-8	[1,100] <u>840</u> N	[2,300] N <u>3,500</u>	s 000'0s	S 000'0S	S 000'05	S 000'05
CYANAZINE	21725-46-2	1 H	1 H	100 H	100 H	1 H	H T
CYCLOHEXANE	110-82-7	13,000 N	53,000	55,000 S	<u>52'000</u> S	13,000 N	
CYCLOHEXANONE	108-94-1	[49,000] [N] 180,000 G	[100,000] [N] 510,000 G	[4,900,000] [N] 18,000,000 G	[10,000,000] [N] 37,000,000 G	[49,000] [N] 180,000 G	[100,000] [N] 510,000 G
CYFLUTHRIN	68359-37-5	1 S	-	1 S	1 S	1 S	1 S
CYROMAZINE	66215-27-8	270 G	770 G	27,000 G	5 000'22	270 G	9 022
DDD, 4,4'-	72-54-8	[0.62] <u>2.8</u> [N] <u>G</u>	[2.7] <u>11</u> [N]	[62] <u>160</u> [N] S	160 S	[62] <u>160</u> [N] S	160 S
DDE, 4,4'-	72-55-9	1.9 G	9 9'L	40 S	S 04	8 0 7	S 04
DDT, 4,4'-	50-29-3	1.9 G	S 5.5 S	5.5 S	S 5'5	S 5'5	S 5'5
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	400 M	400 M	40,000 M	M 000,04	S 000'00Z	S 000'00Z
DIALLATE	2303-16-4	[2.5] <u>11</u> [N] G	_	[250] <u>1,100</u> [N] <u>G</u>	Ξo	[25	_
DIAMINOTOLUENE, 2,4-	2-08-56	[0.21] <u>0.17</u> G	[0.81] <u>0.68</u> G	[21] <u>17</u> G	[81] <u>68</u> G		[810] <u>680</u> G
DIAZINON	333-41-5	[0.6] 1 H	[0.6] 1 H	[60] <u>100</u> H	[60] 100 H	[0.6] 1 H	[0.6] 1 H
DIBENZO[A,HJANTHRACENE	23-70-3	[0.09] <u>0.029</u> G	0.36 G	0.6 S	S 9.0	0.6 S	S 9.0
DIBENZOFURAN	132-64-9	<u>37</u> G	100 <u>G</u>				
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.2 M	0.2 M	20 M		- 1	
DIBROMOBENZENE, 1,4-	106-37-6	370 G	1,000 G	20,000 S	20,000 S	370 G	1,000 G
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.05 M	0.05 M	5 M	2 M	5 M	5 M
DIBROMOMETHANE	74-95-3	[97] <u>370</u> [N]	[200]	[9,700] [N] 37,000 G	[20,000] [N] 100,000 G	_	[20,000] [N] 100,000 G
DIBUTYL PHTHALATE, N-	84-74-2	3,700 G	10,000 G			400,000 S	400,000 S
DICAMBA	1918-00-9	4,000	4,000 H			피	
DICHLOROACETIC ACID	76-43-6			6,000 M	6,000 M	ΣΙ	₩ 09
DICHLORO-2-BUTENE, 1,4-	764-41-0	764-41-0 [0.016] <u>0.012</u> N	N [690.0] 0.06	[1.6] <u>1.2</u> N	N <u>9</u> [6.9]	[0.016] N <u>0.012</u>	

H = Lifetime health advisory level G = Ingestion N = Inhalation S = Aqueous solubility cap

All concentrations in µg/L
R = Residential
NR = Non-Residential
M = Maximum Contaminant Level

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	UIFERS		NON TIEFER	OHEEDS
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	TDS > 2500	2500	100-100	
		œ	NR.	œ	NR	R	NR
DICHLORO-2-BUTENE, TRANS-1-4,	110-57-6	0.012 N	0.06 N	1.2 N	N 9		0.06 N
DICHLOROBENZENE, 1.2-	95-50-1	W 009	W 009	M 000,09	60,000 M	60,000 M	- 1
DICHI OROBENZENE, 1,3-	541-73-1	Н 009	Н 009	Н 000'09	Н 000'09	Н 000'09	Н 000'09
DICHI OROBENZENE. P-	106-46-7	75 M	75 M	7,500 M	7,500 M		
DICHLOROBENZIDINE, 3.3'-	91-94-1	1.5 G	5.8 G	150 G	580 G	1,500 G	3,100 S
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	1,000 H	1,000 H	100,000 H	100,000 H	100,000 H	100,000 H
DICHLOROETHANE, 1,1-	75-34-3	[27] <u>31</u> N	[110] 160 N	[2,700] N 3,100	[11,000] N 16,000	[270] <u>310</u> N	[1,100] N 1,600
DICHI OROETHANE 12-	107-06-2	2 W	5 M	200 M	200 M	W 05	50 M
DICHI OROETHYLENE, 1.1-	75-35-4	W 2	W 2	M 007	M 007	M 02	70 M
DICHI OROFITYI ENE. CIS-1.2-	156-59-2	M 02	M 07	7,000 M	M 000,7	M 002	700 M
DICHLOROETHYLENE, TRANS-1.2-	156-60-5	100 M	100 M	10,000 M	10,000 M	1,000 M	1,000 M
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	2 W	2 M	200 M		200 M	200 M
DICHI OROPHENOL. 2.4-	120-83-2	20 H	20 H	2,000 H	2,000 H		
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	M 07	M 02	N 000,7	M 000'2	[7,000] M 70,000	[7,000] M 70,000
DICHI OROPROPANE. 1.2-	78-87-5	5 M	2 M	200 M	M 005	20 M	50 M
DICHI OROPROPENE, 1.3-	542-75-6	9.9 9.9	26 G	5 099	2,600 G	9 099 C	- 1
DICHI OROPROPIONIC ACID, 2.2- (DALAPON)	75-99-0	200 M	200 M	20,000 M	Z0,000 M	20,000 M	20,000 M
DICHLORVOS	62-73-7	[0.52] <u>2.3</u> [N]	[2.2] <u>9</u> [N] <u>G</u>	[52] <u>230</u> [N] <u>G</u>	[220] <u>900</u> [N] <u>G</u>	_	[2.2] <u>9</u> [N] <u>G</u>
DICYCI OPENTADIENE	77-73-6	[0.55] 15 N	[1.2] <u>62</u> N	[55] <u>1,500</u> N	[120] <u>6,200</u> N	[0.55] <u>15</u> N	[1.2] <u>62</u> N
DIELDRIN	60-57-1	0.041 G	0.16 G	4.1 G		41	- 1
DIETHYL PHTHALATE	84-66-2	[5,000] [H] 29,000 G	[5,000] [H] 82,000 G	[500,000] [H] 1,100,000 S	[500,000] [H] 1,100,000 S	1,100,000 S	1,100,000 S
DIELUBENZURON	35367-38-5	200 S	200 S	200 S	200 S	200 S	200 S
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	H 009	H 009	H 000'09	H 000'09	П 009	
DIMETHOATE	60-51-5	7.3 G	20 G	730 G	2,000 G	- 1	20,000 G
DIMETHOXYBENZIDINE, 3,3-	119-90-4	47 G	190 G	4,700 G		- 1	- 1
DIMETHRIN	70-38-2	S 98	<u>36</u> <u>S</u>	- 1	- 1	S 98	
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	0.14 G	0.57 G	14 G			
DIMETHYLANILINE, N.N-	121-69-7	73 G	200 G	7,300 G	- 1	- 1	- 1
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.072] <u>0.06</u> G	[0.28] <u>0.24</u> G	[7.2] <u>6</u> G	[28] <u>24</u> G	[72] <u>60</u> G	[280] <u>240</u> G

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	UIFERS			
REGIII ATED SIIBSTANCE	CASRN	≥ SQT	2500	TDS > 2500	. 2500	NON-USE	NON-USE AQUIPERS
		Г	N.	œ	N.	ď	N.
DIMETHYL METHYLPHOSPHONATE	756-79-6	100 H	100 H	10,000 H	10,000 H	100 H	
DIMETHYLPHENOL, 2.4-	105-67-9	730 G	2,000 G	73,000 G	200,000 G	730,000 G	2,000,000 G
DINITROBENZENE. 1.3-	0-99-66	1 H	T -	100 H	100 H	1,000 H	1,000 H
DINITROPHENOL, 2,4-	51-28-5	[19] <u>73</u> [N] G	[41] <u>200</u> [N]	[1,900] [N] 7,300 G	[4,100] [N] 20,000 G	[190] <u>73,000</u> [N]	[410] [N] 200,000 G
DINITROTOLUENE, 2.4-	121-14-2	2.1 G	8.4 G	210 G	840 G	2,100 G	8,400 G
DINITROTOLUENE, 2.6- (2.6-DNT)	606-20-2	37 G	100 G	3,700 G	10,000 G	37,000 G	
DINOSEB	88-85-7	W 2	W 2	700 M	M 002	M 000,7 [007]	M 000,7 [007]
DIOXANE, 1,4-	123-91-1	[5.6] <u>6.4</u> N	[24] <u>32</u> N	[560] <u>640</u> N	[2,400] N <u>3,200</u>	[56] <u>64</u> N	[240] <u>320</u> N
DIPHENAMID	957-51-7	200 H	200 H	20,000 H	20,000 H		
DIPHENYLAMINE	122-39-4	[200] <u>910</u> [H]	[200] <u>2,600</u> [H] G	[20,000] [H] 91,000 G	[20,000] [H] 260,000 G	[200,000] [H] 300,000 S	[200,000] [H] 300,000 S
DIPHENYI HYDRAZINE 12-	122-66-7	0.83 G	3.3 G	83 G	250 S	250 <u>S</u>	250 S
DIQUAT	85-00-7	20 M	20 M	2,000 M	2,000 M	20 M	20 M
DISULFOTON	298-04-4	[0.3] <u>0.7</u> H	Н <u>7.0</u> [6.0]	H 02 [08]	H 0Z [06]	[30] 7 <u>00</u> H	[30] 7 <u>00</u> H
DITHIANE. 1.4-	505-29-3	H 88	H 88	H 000'8	H 000'8	8	- 1
DIURON	330-54-1	[10] <u>73</u> [H] G	[10] <u>200</u> [H] G	[1,000] [H] 7,300 G	[1,000] [H] 20,000 G	[10] <u>73</u> [H] <u>G</u>	[10] <u>200</u> [H] <u>G</u>
ENDOSULFAN	115-29-7	[58] <u>220</u> [N] <u>G</u>	[120] <u>480</u> [N]	480 S	480 S	480	
ENDOSULFAN I (APLHA)	8-86-656	220 G	S 009	S 009		- 1	- 1
ENDOSULFAN II (BETA)	33213-65-9	220 G	450 S		- 1		
ENDOSULFAN SULFATE	1031-07-8	120 S	120 S	- 1	- 1	- 1	
ENDOTHALL	145-73-3	100 M	100 M	10,000 M	- 1	- 1	- 1
ENDRIN	72-20-8	2 M	2 M	200 M	200 M		- 1
EPICHLOROHYDRIN	106-89-8	[2.8] <u>2.1</u> N	N 8.8 [8.5]	[280] <u>210</u> N	[580] <u>880</u> N	[280] <u>210</u> N	
ETHEPHON	16672-87-0	180 G	510 G	18,000 G	51,000 G	180 G	
ETHION	563-12-2	18 G	51 G	8 9 S	850 S	18 G	51 G
ETHOXYETHANOL, 2- (EGEE)	110-80-5	[550] <u>420</u> N	[1,200] N 1,800	[55,000] N 42,000	[120,000] N 180,000	[55,000] N 42,000	[120,000] N <u>180,000</u>
ЕТНҮL АСЕТАТЕ	141-78-6	[8,700] [N] 33,000 G	[18,000] [N] 92,000 G	[870,000] [N] 3,300,000 G	[1,800,000] [N] 9,200,000 G	[870,000] [N] 3,300,000 G	[1,800,000] [N] 9,200,000 G

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

CASEN TDS 2500 TDS 2500 NON-USE AUOUT				USED AQUIFERS	UIFERS		L C	0 0 1
The color of the	REGULATED SUBSTANCE	CASRN		2500	< SQT	2500	NON-USE	AGUIFERS
The Part of Mark of		•	~	NR.	œ	NR	ď	NR
The color of the	ETHYL ACRYLATE	140-88-5						[1,300] [N] <u>5,400</u> <u>G</u>
Colored Colo	ETHYL BENZENE	100-41-4	1	ı				
Fig. 2017 Fig.		759-94-4	1					- 1
100 100	ЕТНҮС ЕТНЕК	60-29-7						[4,100] [N] 20,000 G
1,400 1,400 1,400 1,400 1,400,00	ETHYL METHACRYLATE	97-63-2						[1,800] [N] 9,200 G
HOATE 104-64-5 131_2.9 HJ 131_2.9 HJ 13001 120 HJ 13001 140 150 140 150 140 150 140 150 140 150 140 150 140	ETHYLENE GLYCOL	107-21-1	14,000 H					
HOATE 2104-64-5 0.37 G		96-45-7			1			[3,000] [H] <u>8,200</u> G
22224-92-6 1210.7 H 1210.7 H 12001.00 H 12001.0 H 1210.7 H 1210.0 H 1210	ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	1	1 G	1			
51630-58-1 85	FENAMIPHOS	22224-92-6	1	0.7	2		2.0	
20644-0 260 S 26		51630-58-1	ł					
200-44-0 260 S 2	FLUOMETURON (FLUOMETRON IN EPA FEB 96)	2164-17-2	1			- 1		
Re-73-7 1,500 G 1,900 S 1,000 S 1,00	FLUORANTHENE	206-44-0	1				- 1	
75-694 2,000 H 2,000 H 1,000	FLUORENE	86-73-7					- 1	- 1
944-22-9 10 H	FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4				- 1		
STATE STAT	FONOFOS	944-22-9					- 1	
Colored Colo	FORMALDEHYDE	20-00-0		1 1		- 1	- 1	
10-00-9 19.71 37 [N] 1201 100 [N] 19701 3.700 [N] 17,000 [N] 19701 3.700 [N] 1000 G 10,000 G	FORMIC ACID	64-18-6						[410,000] N 260
110-00-9 19.71 32 IN	FOSETYL-AL	39148-24-8	ŀ	1		31,000,000 G	110,000 G	310,000 G
98-01-1	FURAN	110-00-9		[20] 100 [N] G	<u>002'8</u> [026]	[2,000] [N] 10,000 G	[970] <u>3,700</u> [N]	[2,000] [N] 10,000 G
1071-83-6 700 M 700 M 70,000 M 70,000 M 70,000 M 700 M 180 S 700 M 700 M <td>FURFURAL</td> <td>98-01-1</td> <td></td> <td></td> <td></td> <td></td> <td>110 [G] <u>N</u></td> <td>[290] <u>310</u> [N] <u>G</u></td>	FURFURAL	98-01-1					110 [G] <u>N</u>	[290] <u>310</u> [N] <u>G</u>
76-44-8 0.4 M 0.4 M 40 M 40 M 180 S 1024-57-3 0.2 M 0.2 M 20 M 20 M 200 M 118-74-1 1 M 1 M 6 S 6 S 6 S 87-68-3 [1] 8.5 [H] [1] 33 [H] [100] 850 [H] [100] 2900 [H] [1,000] [H] [1,000] [H] 6 6 6 6 5 6 5 6 5 77-47-4 50 M 50 M 1,800 S 1,800 S 1,800 S 1,800 S 1,800 S 1,800 S	GLYPHOSATE	1071-83-6	1	1				- 1
1024-57-3 0.2 M 0.2 M 20 M 200 M 2	HEPTACHLOR	76-44-8					1	- 1
118-74-1	HEPTACHLOR EPOXIDE	1024-57-3	1	1				200 M
S7-68-3	HEXACHLOROBENZENE	118-74-1	-	1 M	S 9	9	S 9	- 1
77-47-4 50 M 50 M 1,800 S 1,800 S 1,800 S	HEXACHLOROBUTADIENE	87-68-3	8.5	33	[100] <u>850</u> [H] <u>G</u>	2,900	[1,000] [H] <u>2,900</u> S	[1,000] [H] 2,900 S
	HEXACHLOROCYCLOPENTADIENE	77-47-4	20 M	1 1	1 1			- 1

APPENDIX A
TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	UIFERS			
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	TDS	> 2500	NON-USE	NON-USE AQUIPERS
		œ	NR R	ď	NR.	æ	NR
HEXACHLOROETHANE	67-72-1	1 H	1 H	100 H	100 H	100 H	
HEXANE	110-54-3	[550] 1,500 N	[1,200] [N] 6,100 G	S 005'6	S 005'6	[550] <u>1,500</u> N	[1,200] [N] <u>6,100</u> <u>G</u>
HEXAZINONE	51235-04-2	400 H	400 H	40,000 H	40,000 H	400 H	
HEXYTHIAZOX (SAVEY)	78587-05-0	1	S 009	S 009	S 009	1 1	S 009
HMX	2691-41-0	400 H					윙
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	[0.0088] <u>0.01</u> N	[0.038] N 0.051	[0.88] 1 N	[3.8] <u>5.1</u> N	[0.088] <u>0.1</u> N	[0.38] <u>0.51</u> N
HYDROQUINONE	123-31-9	[1,500] <u>12</u> G	[4,100] <u>46</u> G	[150,000] G <u>1,200</u>	[410,000] G 4,600	[1,500,000] G 12,000	[4,100,000] G 46,000
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.9] <u>0.29</u> G	3.6 G	<u>5</u> [62] <u>67</u> [8]	62 S	- 1	62 S
IPRODIONE	36734-19-7	1,500 G	4,100 G	13,000 S	13,000 S	1,500 G	
ISOBUTYL ALCOHOL	78-83-1	[2,900] [N] 11,000 G	[6,100] [N] 31,000 G	[290,000] [N] 1,100,000 G			[610,000] [N] 3,100,000 G
ISOPHORONE	78-59-1	100 H	100 H			100,000 H	
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	H 00Z	700 H	H 000'0Z	H 000'0Z	- 1	
KEPONE	143-50-0	0.041 G	0.16 G	4.1 G	16 G		160 G
MALATHION	121-75-5	100 H	100 H	10,000 H	10,000 H	[10,000] H 100,000	[10,000] 100,000
MALEIC HYDRAZIDE	123-33-1	4,000 H	4,000 H	400,000 H	400,000 H	4,000 H	4,000 H
MANEB	12427-38-2	180 G	510 G	18,000 G	23,000 S		
MERPHOS OXIDE	78-48-8	1.1 G	3.1 G		310 G	- 1	
METHACRYLONITRILE	126-98-7	N <u>3.1</u> [9.1]	[4.1] <u>6.2</u> N	[190] <u>150</u> N		- 1	- 1
METHAMIDOPHOS	10265-92-6	1.8 G			- 1	- 1	- 1
METHANOL	67-56-1	[4,900] <u>8,400</u> N	[10,000] N 35,000	[490,000] N 840,000	[1,000,000] N 3,500,000	[490,000] N 840,000	[1,000,000] N 3,500,000
METHOMYL	16752-77-5	200 H	200 H	20,000 H	20,000 H		- 1
METHOXYCHLOR	72-43-5	40 M	40 M	45 S	45 S	45 S	
METHOXYETHANOL, 2-	109-86-4	[37] <u>42</u> [G] N	[100] <u>180</u> [G]		_	[37] 42	[100] <u>180</u> [G]
METHYL ACETATE	79-20-9	37,000 G	100,000 G	3,700,000 G	- 1		
METHYL ACRYLATE	96-33-3	1,100 G	3,100 G	110,000 G	- 1	- 1	1
METHYL CHLORIDE	74-87-3	H 08 [8]	(3) <u>30</u> H	[300] 3,000 H	[300] 3,000 H	[300] 3,000 H	[300] 3,000 H

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	DUIFERS			
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	TDS	TDS > 2500	HOD-NON	NON-USE AGUITERS
		~	NR	œ	NR.	æ	NR
METHYL ETHYL KETONE	78-93-3	[2,800] <u>4,000</u> [N]	[5,800] [N] 4,000 H	[280,000] [N] 400,000 H	[580,000] [N] 400,000 H	2	[580,000] [N] 400,000 H
METHYL ISOBUTYL KETONE	108-10-1	[190] <u>2,900</u> [N] G	4[10] 8,200 [N]	[19,000] [N] 290,000	[41,000] [N] 820,000 G	[19,000] [N] 290,000 G	[41,000] [N] 820,000 G
METHYL ISOCYANATE	624-83-9	2.1 N	8.8 N				
METHYL-N-BUTYL KETONE (2-HEXANONE)	591-78-6	E)	4 1			١.	
METHYL METHACRYLATE	80-62-6	[1,900] <u>1,500</u> N	[4,100] N 6,200	[190,000] N 150,000	[410,000] N 620,000	[190,000] N 150,000	[410,000] N 620,000
METHYL METHANESULFONATE	66-27-3	6.7 G	26 G	9 029	2,600 G	6.7 G	26 G
METHYL PARATHION	298-00-0	[2] H	[2] 1 H	[200] <u>100</u> H	[200] 100 H	[200] 1,000 H	
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	[220] <u>84</u> [G]	[610] <u>350</u> [G]	[22,000] [G] <u>8,400</u> <u>N</u>	[61,000] [G] 35,000 N	[220]	
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	20 [H]	20 [H]	2,000 [H]			200 [H]
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	위	30 H		H 000'€		30,000 H
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	[5.1] <u>2.2</u> G	[20] <u>26</u> G	[510] <u>220</u> G	[2,000] G 2,600	[5.1] <u>2.2</u> G	[20] <u>26</u> G
METHYLNAPHTHALENE, 2-	91-57-6	[730] <u>150</u> G	[2,000] <u>410</u> G	[25,000] [S] 15,000 G	25,000 S	[730] <u>150</u> G	[2,000] <u>410</u> G
METHYLSTYRENE, ALPHA	98-83-9	[680] <u>2,600</u> [N]	[1,400] [N] 7,200 G	[68,000] [N] 260,000 G	[140,000] [N] 560,000 S	[680] <u>2,600</u>	[1,400]] [N] 7,200 <u>G</u>
METOLACHLOR	51218-45-2	H 002	H 00Z		H 000'0Z	700 H	
METRIBUZIN	21087-64-9		H 0Z		- 1	- 1	
MONOCHLOROACETIC ACID	79-11-8		H 0Z			2	- 1
NAPHTHALENE	91-20-3	H 001	100 H	- 1	- 1	30,000	
NAPHTHYLAMINE, 1-	134-32-7	0.37 G	1.4 G		- 1	370	- 1
NAPHTHYLAMINE, 2-	91-59-8	0.37 G	1.4 G		- 1	370	- 1
NAPROPAMIDE	15299-99-7	3,700 G	10,000 G	2000'02		3,700	_
NITROANILINE, M-	99-09-2	[2.1] 11 G	[5.8] <u>31</u> G	[210] <u>1,100</u> G	- 1	[2.1] 11	1
NITROANILINE, O-	88-74-4	[2.1] 110 G	[5.8] <u>310</u> G	[210] 11,000 G	[580] <u>31,000</u> G		- 1
NITROANILINE, P-	100-01-6	[2.1] 33 G	[5.8] 130 G	[210] <u>3,300</u> G	[580] <u>13,000</u> G		
NITROBENZENE	98-95-3	[18] <u>73</u> G	[51] <u>200</u> G	[1,800] G 7,300	[5,100] G 20,000	[18,000] G 73,000	[51,000] G 200,000
NITROGUANIDINE	556-88-7	H 002	H 002		70,000	200	
NITROPHENOL, 2-	88-75-5	290 G	820 G	29,000 G	82,000 G	290,000 G	820,000 G

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AC	USED AQUIFERS		101	9011104
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	< SQT	TDS > 2500	100-101	NON-USE AGOILENS
		æ	NR	œ	NR	ж	NR
NITROPHENOL 4-	100-02-7	H 09	H 09	Н 000'9	H 000'9	Н 000'09	
NITROPROPANE, 2-	79-46-9	79-46-9 [0.016] 0.018 N	N [0.068] N 0.093	[1.6] <u>1.8</u> N	N <u>ε.פ</u> [8.9]	[0.16] <u>0.18</u> N	[0.68] 0.93 N
NITROSODIETHYLAMINE, N-	55-18-5	[0.001] N 0.00045	[0.0043] N 0.0058	[0.1] <u>0.045</u> N	[0.43] <u>0.58</u> N	[0.01] N 0.0045	[0.043] N 0.058
NITROSODIMETHYLAMINE, N-	62-75-9	[0.0031] N 0.0014	[0.013] N 0.018	[0.31] <u>0.14</u> N	[1.3] <u>1.8</u> N	[0.031] N 0.014	[0.13] <u>0.18</u> N
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	[0.027] <u>0.12</u> [N]	[0.11] <u>0.48</u> [N] <u>G</u>	[2.7] <u>12</u> [N]	[11] <u>48</u> [N]	_	_
NITROSODI-N-PROPYLAMINE, N-	621-64-7	0.094 G	0.37 G	9.4 G	37 G	94 G	
NITROSODIPHENYLAMINE, N-	9-08-30-6	130 G	530 G	13,000 G	32,000 S	32,000 S	
NITROSO-N-ETHYLUREA, N-	759-73-9	[0.0047] G 0.008	[0.019] G 0.096	[0.47] <u>0.8</u> G	[1.9] <u>9.6</u> G	[0.47] <u>8</u> G	
OCTYL PHTHALATE, DI-N-	117-84-0	[730] <u>1,500</u> G	[2,000] [G] 3,000 S	3'000's	3,000 S		- 1
OXAMYL (VYDATE)	23135-22-0	200 M	200 M	20,000 M	20,000 M	200 M	- 1
PARAQUAT	1910-42-5	위	되 88	3,000 H		- 1	- 1
PARATHION	56-38-2	220 G	610 G	20,000 S	20,000 S	- 1	- 1
PCB-1016 (AROCLOR)	12674-11-2	2.6 G	7.2 G	250 S	250 S	.	
PCB-1221 (AROCLOR)	11104-28-2	[1.3] <u>0.33</u> G	[5.2] <u>1.3</u> G	[130] <u>33</u> G		- 1	
PCB-1232 (AROCLOR)	11141-16-5		[5.2] <u>1.3</u> G	[130] <u>33</u> G			
PCB-1242 (AROCLOR)	53469-21-9	[1.3] <u>0.33</u> G	[5.2] 1.3 G	[100] <u>33</u> [S] G	100 S	[1.3] <u>0.33</u> G	[5.2] <u>1.3</u> G
PCB-1248 (AROCLOR)	12672-29-6	[0.37] <u>0.33</u> G	[1.4] <u>1.3</u> G	[37] <u>33</u> G			5
PCB-1254 (AROCLOR)	11097-69-1	[0.37] <u>0.33</u> G	[1.4] <u>1.3</u> G		- 1		
PCB-1260 (AROCLOR)	11096-82-5	[1.1] <u>0.33</u> G	[4.3] <u>1.3</u> G	[80] <u>33</u> [S] G	1	[1.1] <u>0.33</u> G	
PEBULATE	1114-71-2	1,800 G	5,100 G	92,000 S	92,000 S	1	_
PENTACHLOROBENZENE	608-93-5	29 G	82 G		- 1	- 1	1
PENTACHLOROETHANE	76-01-7				- 1	- 1	29 G
PENTACHLORONITROBENZENE	82-68-8	2.5 G	10 G	250 G		- 1	- 1
PENTACHLOROPHENOL	87-86-5	- N	1 M	100	- 1	- 1	
PHENACETIN	62-44-2	300	1,200	30,000	- 1	- 1	- 1
PHENANTHRENE	85-01-8	1,100 S	1,100 S	1,100 S	1,100 S	1,100 S	1,100 S

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	UIFERS			
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	TDS > 2500	. 2500	NON-USE	NON-USE AGUIPERS
		œ	A.	æ	NR.	2	NR
PHENOL	108-95-2	2,000 H	2,000 H	200,000 H	200,000 H	200,000 H	200,000 H
PHENYL MERCAPTAN	109-98-5	<u>0.37</u> <u>G</u>	<u>+</u> I	37 G	<u>100</u> G	<u>0.37</u> <u>G</u>	1 G
PHENYLENEDIAMINE, M-	108-45-2	220 G	610 G	22,000 G	61,000 G	220,000 G	610,000 G
PHENYLPHENOL, 2-	90-43-7	[340] <u>350</u> G	[1,300] G 1,400	[34,000] G 35,000	[130,000] G 140,000	[340,000] G 350,000	s 000'00 <i>L</i>
PHORATE	298-02-2	[1.9] <u>7.3</u> [N] G	[4.1] <u>20</u> [N]	[190] <u>730</u> [N]	[410] <u>2,000</u> [N]	[1.9] <u>7.3</u> [N]	[4.1] <u>20</u> [N]
PHTHALIC ANHYDRIDE	85-44-9	73,000 G	200,000 G	6,200,000 S		6,200,000 S	
PICLORAM	1918-02-1	200 M	200 M	50,000 M	M 000'05	200 M	200 M
POLYCHLORINATED BIPHENYLS (PCBS)	1336-36-3	0.5 M	0.5 M	20 M	M 03	0.5 M	0.5 M
PROMETON	1610-18-0	100 H	100 H	10,000 H	10,000 H	100 H	
PRONAMIDE	23950-58-5	[50] <u>2,700</u> [H]	[50] <u>7,700</u> [H]		[5,000] 🛮 S 15,000	[50] <u>2,700</u> [H] <u>G</u>	_
PROPANIL	8-86-602	180 G	510 G	18,000	51,000 G	180 G	
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	15,000 N	62,000 N	1,500,000 N		15,000 N	
PROPAZINE	139-40-2	위	는 되	1,000 H		10 H	- 1
PROPHAM	122-42-9	[730] <u>100</u> [G]	[2,000] <u>100</u> [G]	[73,000] [G] <u>10,000</u> H	_	[730] <u>100</u> [G] <u>H</u>	_
PROPYLBENZENE, N-	103-65-1	1,500 G	4,100 G	52,000 S	52,000 S		4,100 G
PROPYLENE OXIDE	75-56-9	2.8 G	11 G	1 1		- 1	- 1
PYRENE	129-00-0	130 S	130 S	130 S	130 S	130 S	130
PYRIDINE	110-86-1	[9.7] <u>37</u> [N]	[20] 100 [N] G	[N] <u>002'8</u> [026]	[2,000] [N] 10,000 G	_	[200] 1,000
QUINOLINE	91-22-5	[0.055] <u>0.22</u> G	[0.22] <u>0.87</u> G	[5.5] <u>22</u> G		- 1	- 1
QUIZALOFOP (ASSURE)	76578-14-8	300E	300 S		- 1	- 1	300 S
RDX	121-82-4	2 H	7 F			- 1	- 1
RESORCINOL	108-46-3	73,000 G	200,000 G				
RONNEL	299-84-3	1,800 G	5,100 G		- 1	1,800 G	5,100 G
SIMAZINE	122-34-9	4	4 M	400 M	400 M	4 Z	- 1
STRYCHNINE	57-24-9	11 G	31 G				- 1
STYRENE	100-42-5	100 M	100 M	- 1	- 1	- 1	
TEBUTHIURON	34014-18-1	200 H	200 H		- 1		
TERBACIL	5902-51-2	Н 06	H 06	H 000'6	H 000'6	H 06	Н 06

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			USED AQUIFERS	DUIFERS		September 1997	000
REGULATED SUBSTANCE	CASRN	≥ SQT	2500	TDS > 2500	2500	NON-OSE V	AGOIL ENG
		œ	NR	æ	NR	٣	NR
TERBUFOS	13071-79-9	[0.9] 0.4 H	[0.9] <u>0.4</u> H	[90] <u>40</u> H	[90] <u>40</u> H	[0.9] <u>0.4</u> H	1
TETRACHLOROBENZENE. 1.2.4.5-	95-94-3	11 G	31 G	S 089	S 089	S 085	
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00003 M	0.00003 M	0.003 M	0.003 M	0.019 S	
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	H 02	H 02	7,000 H	7,000 H	Н 000'2	- 1
TETRACHIOROETHANE. 1.1.2.2-	79-34-5	0.3 H	0.3 H	30 H	30 H	30 H	
TETRACHI OROETHYLENE (PCE)	127-18-4	2 M	2 M	200 M	200 M	20 M	
TETRACHLOROPHENOL, 2,3,4,6-	28-90-2	[290] <u>1,100</u> [N]	[610] <u>3,100</u> [N]	[29,000] [N] 110,000 G	[61,000] [N] 180,000 S	[29,000] [N] 180,000 S	[61,000] [N] 180,000 S
TETRAETHYLLEAD	78-00-2	0.0037 G	0.01 G	0.37 G	1 G		
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	[4.9] <u>18</u> [N] G	[10] <u>51</u> [N]	[490] <u>1,800</u> [N]	[1,000] [N] 5,100 G	[4.9] <u>18</u> [N]	[10] <u>51</u> [N] G
TETRAHYDROFURAN	109-99-9	25 N	130 N	2,500 N	13,000 N	25 N	130 N
THIOFANDX	39196-18-4	11 G	31 G	1,100 G	3,100 G	11 G	31 G
THIRAM	137-26-8	180 G	510 G	18,000 G	300'08	180 G	510 G
ENEL IOT	108-88-3	1,000 M	1,000 M	100,000 M	100,000 M	100,000 M	100,000 M
TOLUIDINE, M-	108-44-1	[2.8] <u>3.7</u> G	[11] <u>14</u> G	[280] <u>370</u> G	[1,100] G <u>1,400</u>	[2.8] <u>3.7</u> G	[11] <u>14</u> G
TOLUIDINE, O	95-53-4	[2.8] <u>3.7</u> G	[11] 14 G	[280] <u>370</u> G	[1,100] G 1,400	[2,800] G 3,700	[11,000] G 14,000
TOLUIDINE. P.	106-49-0	3.5 G	14 G	350 G	1,400 G	3.5 G	- 1
TOXAPHENE	8001-35-2	3 M	Ψ 8	300 M	300 M	3 M	- 1
TRIALLATE	2303-17-5	470 G	1,300 G	4,000 S	4,000 S		- 1
TRIBROMOMETHANE (BROMOFORM)	75-25-2	[100] <u>80</u> M	[100] <u>80</u> M	[10,000] M <u>8,000</u>	[10,000] M <u>8,000</u>	[10,000] M 8,000	
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	[83,000] N 63,000	170,000 S	170,000 S	170,000 S	ı	
TRICHLOROBENZENE, 1,2,4-	120-82-1	70 M	M 02	7,000 M	7,000 M	44,000 S	1
TRICHLOROBENZENE, 1,3,5-	108-70-3	40 H	40 H	4,000 H	4,000 H		- 1
TRICHLOROETHANE, 1.1.1-	71-55-6	200 M	200 M	20,000 M	20,000 M	2,000 M	
TRICHLOROETHANE, 1.1.2-	2-00-62	5 M	2 2			- 1	- 1
TRICHLOROETHYLENE (TCE)	79-01-6	5 M	5 M	200 M	M 005	- 1	
TRICHLOROPHENOL. 2,4,5-	95-95-4	3,700 G	10,000 G	370,000 G	1,000,000 G	- 1	1,000,000 S
TRICHLOROPHENOL, 2,4,6-	88-06-2	[11] <u>37</u> G	[31] 100 G	[1,100] G 3,700	[3,100] G 10,000	[11,000] G 37,000	[31,000] G 100,000
Note of constitutions in a							

APPENDIX A TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

			4 6161	0011110			
			USED A	USED AGOIFERS		NON-USE	NON-USE AQUIFERS
REGULATED SUBSTANCE	CASRN	TDS ≤ 2500	2500	TDS	TDS > 2500		
	.	۳	A.	œ	NR	R	NR
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	H 02	H 0/	Н 000'2	Н 000'2	Н 000'02	70,000 H
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)	93-72-1	20 M	20 M	5,000 M	5,000 M	20 M	20 M
TRICHLOROPROPANE, 1,1,2-	9-77-865	180 G	510 G	18,000 G	51,000 G	180 G	510 G
TRICHLOROPROPANE, 1,2,3-	96-18-4	40 H	40 H	4,000 H	4,000 H	4,000 H	4,000 H
TRICHLOROPROPENE, 1,2,3-	96-19-5	[180] <u>2.1</u> [G]	[510] <u>8.8</u> [G]	[18,000] <u>210</u> [G] N	[18,000] <u>210</u> [G] [51,000] <u>880</u> [G] N	[180] <u>2.1</u> [G]	[510] <u>8.8</u> [G]
TRIETHYLAMINE	121-44-8	15 N	62 N	1,500 N	6,200 N	15 N	62 N
TRIFLURALIN	1582-09-8	5 H	5 H	H 009	H 009	H 9	9 H
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4.)	95-63-6	[16] <u>15</u> N	[35] <u>62</u> N	[1,600] N 1,500	[3,500] N 6,200	[1,600] N 1,500	[3,500] N 6,200
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[16] <u>13</u> N	[35] <u>53</u> N	[1,600] N 1,300	[3,500] N 5,300	N <u>EI [91]</u>	[35] <u>53</u> N
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	150 H	19 19	H 000	H 009	H 5	1 2
TRINITROTOLUENE, 2.4.6-	118-96-7	2 H	2 H	200 H	200 H	Н 2	2 H
VINYL ACETATE	108-05-4	[550] <u>420</u> N	[1,200] N 1,800	[55,000] N 42,000	[120,000] N 180,000	[550] <u>420</u> N	[1,200] N 1,800
VINYL BROMIDE (BROMOETHENE)	593-60-2	[1.4] 1.5 N	N 8.7 [5.8]	[140] <u>150</u> N	N 082 [085]	[14] <u>15</u> N	[58] <u>78</u> N
	75-01-4	2 M	2 M	200 M	200 M	Z0 M	20 M
WARFARIN	81-81-2	11 G	31 G	1,100 G	3,100 G	11,000 G	17,000 S
XYLENES (TOTAL)	1330-20-7	10,000 M	10,000 M	180,000 S	180,000 S	180,000 S	180,000 S
ZINEB	12122-67-7	1,800 G	5,100 G	10,000 S	10,000 S	1,800 G	5,100 G

Table 2 - Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Groundwater **APPENDIX A**

			USED AQUIFERS	UIFERS		LOIT	ACHITEDS
REGULATED SUBSTANCE	CASRN	TDS ≤ 2500	2500	TDS > 2500	2500	NON-OSE	NON-USE AGOITENS
		œ	NR.	æ	NR	R	NR
ANTIMONY	7440-36-0	9	W 9	M 009	M 009	6,000 M	6,000 M
ARSENIC	7440-38-2	[50] 10 M	[50] <u>10</u> M	[5,000] 1,000 M	[5,000] 1,000 M	[50,000] M 10,000	[50,000] M 10,000
ASBESTOS (fibers/L)	12001-29-5	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M
BARIUM AND COMPOUNDS	7440-39-3	2,000 M	2,000 M	200,000 M	200,000 M	2,000,000 M	2,000,000 M
BERYLLIUM	7440-41-7	4 M	4	400 M	400 M	4,000 M	4,000 M
BORON AND COMPOUNDS	7440-42-8	Н 009	Н 009	Н 000'09	H 000'09	Н 000'009	Н 000'009
CADMIUM	7440-43-9	5 M	5 M	200 M	- 1	- 1	
CHROMIUM (TOTAL)	7440-47-3	100 M	100 M	10,000 M	10,000 M	100,000 M	100,000 M
COBALT	7440-48-4	[730] <u>11</u> G	[2,000] <u>31</u> G	[73,000] _G	[200,000] _{3,100}	[730,000] 11,000	[2,000,000] _G
COPPER	7440-50-8	1,000 M	1,000 M	100,000 M	100,000 M	1,000,000 M	- 1
CYANIDE. FREE	57-12-5	200 M	200 M	20,000 M	20,000 M	200,000 M	200,000 M
FLUORIDE	16984-48-8	4,000 M	4,000 M	400,000 M	400,000 M	4,000,000 M	1
LEAD	7439-92-1	2 M	M 5	200 M	200 M	5,000 M	5,000 M
LITHIUM	7439-93-2	73 6	<u>200</u> G	7,300 G	- 1	- 1	- 1
MANGANESE	7439-96-5		H 008	30,000 H	30,000 H	300,000 H	- 1
MERCURY	7439-97-6	2 M	2 M	200 M	200 M	2,000 M	2,000 M
MOLYBDENUM	7439-98-7	8 H	H 04	4,000 H	4,000 H	40,000 H	
NICKEL	7440-02-0	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
NITRATE NITROGEN	14797-55-8	10,000 M	10,000 M	- 1	- 1	- 1	
NITRITE NITROGEN	14797-65-0	1,000 M	1,000 M	100,000 M	100,000 M	- 1	1
PERCHLORATE	7790-98-9	26 G	72 6	2,600 G	7,200 G	26,000 G	72,000 G
SELENIUM	7782-49-2	20 M	W 09	5,000 M	5,000 M	50,000 M	50,000 M
SILVER	7440-22-4	100 H	100 H	10,000 H	10,000 H		100,000 H
[SULFATE]		[500,000] [M]	[500,000] [M]	[50,000,000] [M]	_		_
THALLIUM	7440-28-0	2 M	2 M	200 M	200 M	2,000 M	- 1
Z	7440-31-5	22,000 G	61,000 G	2,200,000 G	6,100,000 G	22,000,000 G	61,000,000 G
VANADIUM	7440-62-2	260 G	720 G	26,000 G	72,000 G	260,000 G	720,000 G
ZINC AND COMPOUNDS	7440-66-6	2,000 H	2,000 H	200,000 H	200,000 H	2,000,000 H	2,000,000 H

All concentrations in ug/L (except asbestos)
M = Maximum Contaminant Level
H = Lifetime Health Advisory Level
SMCL = Secondary Maximum Contaminant Level
G = Ingestion
N = Inhalation

R = Residential NR = Nonresidential

Table 2 - Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Groundwater **APPENDIX A**

SECOND	SECONDARY CONTAMINANTS	INANTS	
REGULATED SUBSTANCE	CASRN	SMCL	UNITS
ALUMINUM	7429-90-5	200	µg/L
CHLORIDE	7647-14-5	250,000 µg/L	µg/L
FLUORIDE	7681-49-4	2,000 µg/L	µg/L
IRON	7439-89-6	300	µg/L
MANGANESE	7439-96-5	50	µg/L
SULFATE	7757-82-6	250,000 µg/L	<u>ug/L</u>

R = Residential NR = Nonresidential

All concentrations in ug/L (except asbestos)
M = Maximum Contaminant Level
H = Lifetime Health Advisory Level
SMCL = Secondary Maximum Contaminant Level
G = Ingestion
N = Inhalation

		<u> </u>	Nonresi	Nonresidential		
REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Surface Soil 0-2 feet	Subsurface Soil 2-15 feet		
ACENAPHTHENE	83-32-9	13,000 G	170,000 G	190,000 C		
ACENAPHTHYLENE	208-96-8	13,000 G	170,000 G	190,000 C		
ACEPHATE	30560-19-1	880 G	9,100 G	190,000 C		
ACETALDEHYDE	75-07-0	[140] <u>170</u> N	[480] <u>720</u> N	[560] <u>830</u> N		
ACETONE	67-64-1	10,000 C	10,000 C	10,000 C		
ACETONITRILE	75-05-8	1,100 N	[3,200] N <u>4,800</u>	[3,600] N <u>5,500</u>		
ACETOPHENONE	98-86-2	10,000 C	10,000 C	10,000 C		
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	4.7 G	21 G	190,000 C		
ACROLEIN	107-02-8	0.38 N	[1.1] <u>1.6</u> N	[1.2] <u>1.8</u> N		
ACRYLAMIDE	79-06-1	[4] <u>0.34</u> [G] <u>N</u>	[18] <u>1.7</u> [G] <u>N</u>	<u>2 N</u>		
ACRYLIC ACID	79-10-7	19 N	[53] <u>79</u> N	[60] <u>91</u> N		
ACRYLONITRILE	107-13-1	[4.7] <u>6.6</u> N	[24] <u>33</u> N	[28] <u>38</u> N		
ALACHLOR	15972-60-8	[220] <u>320</u> G	[990] G <u>1,400</u>	190,000 C		
ALDICARB	116-06-3	220 G	2,800 G	190,000 C		
ALDICARB SULFONE	<u>1646-88-4</u>	<u>220 G</u>	<u>2,800</u> <u>G</u>	<u>190,000</u> <u>C</u>		
ALDICARB SULFOXIDE	<u>1646-87-3</u>	<u>220 G</u>	<u>2,800</u> <u>G</u>	<u>190,000</u> <u>C</u>		
ALDRIN	309-00-2		4.7 G	190,000 C		
ALLYL ALCOHOL	107-18-6		[930] <u>24</u> N	[1,100] <u>27</u> N		
<u>AMETRYN</u>	<u>834-12-8</u>		<u>25,000</u> <u>G</u>	<u>190,000</u> <u>C</u>		
AMINOBIPHENYL, 4-	92-67-1	0.85 G	3.8 G	190,000 C		
AMITROLE	61-82-5		84 G	190,000 C		
AMMONIA	7664-41-7	•	[5,300] N <u>8,000</u>	[6,100] N <u>9,100</u>		
AMMONIUM SULFAMATE	7773-06-0	44,000 G	190,000 C	190,000 C		
ANILINE	62-53-3		[53] <u>79</u> N	[60] <u>91</u> N		
ANTHRACENE	120-12-7		190,000 C	190,000 C		
ATRAZINE	1912-24-9		[360] <u>340</u> G	190,000 C		
AZINPHOS-METHYL (GUTHION)	<u>86-50-0</u>		<u>8,400</u> <u>G</u>	<u>190,000 G</u>		
BAYGON (PROPOXUR)	114-26-1		11,000 G	190,000 C		
BENOMYL	17804-35-2		140,000 G	190,000 C		
BENTAZON	25057-89-0		84,000 G	190,000 C		
BENZENE	71-43-2		[210] <u>290</u> N	[240] <u>330</u> N		
BENZIDINE	92-87-5	0.018	0.34 G	190,000 C		
BENZO[A]ANTHRACENE	56-55-3		110 G	190,000 C		
BENZO[A]PYRENE		[2.5] <u>0.57</u> G				
BENZO[B]FLUORANTHENE	205-99-2		110 G	190,000 C		
BENZO[GHI]PERYLENE	191-24-2		170,000 G	190,000 C		
BENZO[K]FLUORANTHENE	207-08-9		1,100 G	190,000 C		
BENZOIC ACID	65-85-0		190,000 C	190,000 C		
BENZOTRICHLORIDE	98-07-7		6.1 G	10,000 C		
BENZYL ALCOHOL	100-51-6		10,000 C	10,000 C		
BENZYL CHLORIDE	100-44-7		[33] <u>45</u> N	[38] <u>52</u> N		
BETA PROPIOLACTONE	<u>57-57-8</u>		0.56 N	0.64 N		
BHC, ALPHA	319-84-6		13 G	190,000 C		
BHC, BETA-	319-85-7	9.9 G	44 G	190,000 C		

All concentrations in mg/kg G - Ingestion [H]N - Inhalation C - Cap

			Nonresidential		
REGULATED SUBSTANCE	CASRN	Residential	Surface	Subsurface	
RESOLATED SOBSTANCE	5/15/11/	0-15 feet	Soil	Soil	
	7040 00 07	74007 707	0-2 feet	2-15 feet	
[BHC, DELTA-]	[319-86-8] 58-89-9	[130] [G] [14] <u>16</u> G	[1,700] [G] [61] 72 G	[190,000] [C] 190,000 C	
BHC, GAMMA (LINDANE)	92-52-4		140,000 G	190,000 C	
BIPHENYL, 1,1-		11,000 G			
BIS(2-CHLOROETHOXY)METHANE	111-91-1	660 G	8,400 G	10,000 G	
BIS(2-CHLOROETHYL)ETHER	111-44-4	[0.96] <u>1.3</u> N [32] <u>44</u> N	[5] <u>6.7</u> N [160] <u>220</u> N	[5.7] <u>7.7</u> N [190] <u>250</u> N	
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1 542-88-1	[32] <u>44</u> N		[0.031] N	
BIS(CHLOROMETHYL)ETHER		<u>0.0072</u>	[0.027] N <u>0.036</u>	<u>0.041</u>	
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	1,300 G	5,700 G	10,000 C	
BISPHENOL A	80-05-7		140,000 G	190,000 C	
BROMACIL	314-40-9	22,000 G	190,000 C	190,000 C	
BROMOCHLOROMETHANE	74-97-5	2,200 G	10,000 C	10,000 C	
BROMODICHLOROMETHANE	75-27-4	[8.6] <u>12</u> N	[45] <u>60</u> N	[51] <u>69</u> N	
BROMOMETHANE	74-83-9	[95] <u>96</u> N	[270] <u>400</u> N	[300] <u>460</u> N	
BROMOXYNIL	1689-84-5	4,400 G	56,000 G	190,000 C	
BROMOXYNIL OCTANOATE	1689-99-2	4,400 G	56,000 G	190,000 C	
BUTADIENE, 1,3-	106-99-0	5.3 G	23 G	[190,000] [C] 85 N	
BUTYL ALCOHOL, N-	71-36-3	[6,600] [N] 10,000 C	10,000 C	10,000 C	
BUTYLATE	2008-41-5		10,000 C	10,000 C	
BUTYLBENZENE, N-	104-51-8		10,000 C	10,000 C	
BUTYLBENZENE, SEC-	135-98-8		10,000 C	10,000 C	
BUTYLBENZENE, TERT-	98-06-6		10,000 C	10,000 C	
BUTYLBENZYL PHTHALATE	85-68-7	[10,000] [C] 9,400 G	10,000 C	10,000 C	
CAPTAN	133-06-2		[23,000] G 34,000	190,000 C	
CARBARYL	63-25-2	22,000 G	190,000 C	190,000 C	
CARBAZOLE	86-74-8		4,000 G	190,000 C	
CARBOFURAN	1563-66-2	1,100 G	14,000 G	190,000 C	
CARBON DISULFIDE	75-15-0		10,000 C	10,000 C	
CARBON TETRACHLORIDE	56-23-5		[110] <u>150</u> N	[120] <u>170</u> N	
CARBOXIN	5234-68-4		190,000 C	190,000 C	
CHLORAMBEN	133-90-4		42,000 G	190,000 C	
CHLORDANE	57-74-9		230 G	190,000 C	
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3		[190,000] C 10.000	[190,000] C 10,000	
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	19 N	[53] <u>80</u> N	[61] <u>91</u> N	
CHLOROACETOPHENONE, 2-	532-27-4				
CHLOROANILINE, P-	106-47-8		[11,000] G 400	190,000 C	
CHLOROBENZENE	108-90-7	[4,400] [G] 960 N		[10,000] [C] 4,600 N	
CHLOROBENZILATE	510-15-6		[290] <u>720</u> G	[10,000] C 190,000	
CHLOROBUTANE, 1-	109-69-3	<u>8,800 G</u>		10,000 C	
CHLORODIBROMOMETHANE	124-48-1	[12] <u>17</u> N	[61] <u>82</u> N	[70] <u>95</u> N	

All concentrations in mg/kg

G - Ingestion
[H]N - Inhalation
C - Cap

			Nonresidential		
REGULATED SUBSTANCE	CASRN	Residential	Surface	Subsurface	
	OAOIIII	0-15 feet	Soil	Soil	
			0-2 feet	2-15 feet	
CHLORODIFLUOROMETHANE	75-45-6		[190,000] C	[190,000] C	
	75.00.0	10,000	10,000	10,000	
CHLOROETHANE	75-00-3	6,200 G	10,000 C	10,000 C [19] 110 N	
CHLOROFORM	67-66-3	[6] <u>19</u> N	[17] <u>97</u> N		
CHLORONAPHTHALENE, 2-	91-58-7	18,000 G [990] 220 G	190,000 C	190,000 C 190,000 C	
CHLORONITROBENZENE, P-	100-00-5	[990] <u>220</u> G	[4,400] G 2,800	190,000 C	
CHLOROPHENOL, 2-	95-57-8	[330] [N]	[920] [N]	[1,100] [N]	
oneonor nervou, z		<u>1,100 G</u>	10,000 C	10,000 C	
CHLOROPRENE	126-99-8	130 N	[370] <u>560</u> N	[430] <u>640</u> N	
CHLOROPROPANE, 2-	75-29-6	1,900 N	[5,400] N	[6,100] N	
			<u>8,000</u>	<u>9,100</u>	
CHLOROTHALONIL	1897-45-6		[7,200] G	190,000 C	
		3,300	26,000	10.000	
CHLOROTOLUENE, O-	95-49-8	4,400 G	10,000 C	10,000 C	
CHLOROTOLUENE, P-	<u>106-43-4</u>	10,000 <u>C</u>	10,000 C	10,000 C	
CHLORPYRIFOS	2921-88-2	660 G	8,400 G	190,000 C	
CHLORSULFURON	64902-72-3		140,000 G	190,000 C	
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	2,200 G	28,000 G	190,000 C	
CHRYSENE	218-01-9	[2,500] G 570	11,000 G	190,000 C	
CRESOL(S)	1319-77-3		10,000 C	10,000 C	
CRESOL, 4,6-DINITRO-O-	534-52-1		280 G	190,000 G	
CRESOL, 0- (2-METHYLPHENOL)	95-48-7				
CRESOL, O- (2-WETTTE TIENOL)	00 .0 .	11,000 G	140,000 G	190,000	
CRESOL, M- (3-METHYLPHENOL)	108-39-4	10,000 C	10,000 C	10,000 C	
CRESOL, P- (4-METHYLPHENOL)	106-44-5	1,100 G	14,000 G	190,000 C	
CRESOL, P-CHLORO-M-	59-50-7	1,100 G	14,000 G	190,000 C	
CROTONALDEHYDE	4170-30-3	9.4 G	42 G	10,000 C	
CROTONALDEHYDE, TRANS-	123-73-9		42 G	10,000 G	
CUMENE (ISOPROPYL BENZENE)	98-82-8		10,000 C	10,000 C	
		7,700	04.0	400,000, 6	
<u>CYANAZINE</u>	21725-46-2		94 G	190,000 C	
CYCLOHEXANE	110-82-7		10,000 C	10,000 C	
CYCLOHEXANONE	108-94-1		10,000 C	10,000 C [10,000] C	
CYFLUTHRIN	68359-37-5	5,500 G	[10,000] [C] 70,000 G	190,000	
CYROMAZINE	66215-27-8	1,700 G	21,000 G	190,000 C	
DDD, 4,4'-	72-54-8		330 G	190,000 C	
DDD, 4,4'-	72-55-9				
DDE, 4,4'-	50-29-3			190,000 C	
DI(2-ETHYLHEXYL)ADIPATE	103-23-1			10,000 C	
DIALLATE	2303-16-4		[93] <u>1,300</u> [N]		
		G (1.0)	G	10,000 C	
DIAMINOTOLUENE, 2,4-	95-80-7		[25] <u>21</u> G	190,000 C	
DIAZINON	333-41-5	[200] <u>150</u> G	[2,500] G	[190,000] C	
			2,000	10,000	
DIBENZO[A,H]ANTHRACENE	53-70-3		11 G	190,000 C	
DIBENZOFURAN	<u>132-64-9</u>	220 <u>G</u>	<u>2,800</u> <u>G</u>	<u>190,000</u> <u>G</u>	

All concentrations in mg/kg G - Ingestion [H]N - Inhalation C - Cap

			Nonres	idential
REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Surface Soil 0-2 feet	Subsurface Soil 2-15 feet
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	[3.8] N <u>0.029</u>	[11] <u>0.37</u> N	[12] <u>0.43</u> N
DIBROMOBENZENE, 1,4-	106-37-6	2,200 G	28,000 G	190,000 C
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	<u>0.74 N</u>	[0.93] <u>3.7</u> [G] <u>N</u>	
DIBROMOMETHANE	74-95-3	[670] [N] <u>2,200</u> <u>G</u>	[1,900] [N] <u>10,000</u> C	[2,100] [N] <u>10,000</u> <u>C</u>
DIBUTYL PHTHALATE, N-	84-74-2	10,000 C	10,000 C	10,000 C
<u>DICAMBA</u>	<u>1918-00-9</u>	<u>6,600 G</u>	<u>84,000</u> <u>C</u>	190,000 C
DICHLOROACETIC ACID	<u>76-43-6</u>	<u>880</u> <u>G</u>	<u>10,000</u> <u>C</u>	10,000 C
DICHLORO-2-BUTENE, 1,4-	764-41-0	[91,000] N <u>0.11</u>	[190,000] [C] <u>0.53</u> N	[190,000] [C] <u>0.61</u> <u>N</u>
DICHLORO-2-BUTENE, TRANS-1,4-	<u>110-57-6</u>	<u>0.1 N</u>	<u>1 N</u>	1 N
DICHLOROBENZENE, 1,2-	95-50-1	3,800 N	10,000 C	10,000 C
DICHLOROBENZENE, 1,3-	541-73-1	[6,600] G <u>660</u>	[10,000] [C] <u>8,400</u> <u>G</u>	
DICHLOROBENZENE, P-	106-46-7	[750] <u>40</u> [G] <u>N</u>	[3,300] [G] <u>200</u> N	[190,000] [C] <u>230</u> <u>N</u>
DICHLOROBENZIDINE, 3,3'-	91-94-1	40 G	180 G	190,000 C
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	[3,800] N 3,900	10,000 C	10,000 C
DICHLOROETHANE, 1,1-	75-34-3	[200] <u>280</u> N	[1,000] N <u>1,400</u>	[1,200] N <u>1,600</u>
DICHLOROETHANE, 1,2-	107-06-2	[12] <u>17</u> N	[63] <u>86</u> N	[73] <u>98</u> N
DICHLOROETHYLENE, 1,1-	75-35-4	[6.4] N <u>3,800</u>	[33] [N] <u>10,000 C</u>	[38] [N] <u>10,000 C</u>
DICHLOROETHYLENE, CIS-1,2-	156-59-2	[670] [N] <u>2,200</u> <u>G</u>	10,000 C	10,000 C
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	[1,300] N <u>1,100</u>	[3,700] N <u>4,800</u>	[4,300] N <u>5,500</u>
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	[680] <u>950</u> N	[3,500] N <u>4,700</u>	[4,000] N <u>5,400</u>
DICHLOROPHENOL, 2,4-	120-83-2		8,400 G	190,000 C
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7		28,000 G	190,000 C
DICHLOROPROPANE, 1,2-	78-87-5		[160] <u>220</u> N	[180] <u>260</u> N
DICHLOROPROPENE, 1,3-	542-75-6		[410] <u>560</u> N	[470] <u>640</u> N [6,300] [N]
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	[2,000] [N] 6,600 G	10,000 C	10,000 C
DICHLORVOS	62-73-7		270 G	[190,000] C 10,000
DICYCLOPENTADIENE	77-73-6	<u>130 N</u>	55 <u>0</u> <u>N</u>	<u>630 N</u>
DIELDRIN	60-57-1	1.1 G	5 G	[10,000] C 190,000
DIETHANOLAMINE	111-42-2		10,000 C	10,000 C
DIETHYL PHTHALATE	84-66-2		10,000 C	10,000 C
DIFLUBENZURON	35367-38-5		56,000 G	190,000 C
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6		10,000 C	10,000 C
DIMETHOATE	60-51-5	44 G	560 G	190,000 C

All concentrations in mg/kg

G - Ingestion

[H]N - Inhalation C - Cap

			Nonresi	dential	
REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Surface Soil 0-2 feet	Subsurface Soil 2-15 feet	
DIMETHOXYBENZIDINE, 3,3-	119-90-4	1,300 G	5,700 G	190,000 C	
DIMETHRIN	70-38-2	66,000 G	190,000 C	190,000 C	
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	3.9 G	17 G	190,000 C	
DIMETHYLANILINE, N,N-	121-69-7	440 G	5,600 G	10,000 C	
DIMETHYLBENZIDINE, 3,3-	119-93-7	[1.9] <u>1.6</u> G	[8.6] <u>7.2</u> G	[10,000] C 190,000	
DIMETHYL METHYLPHOSPHONATE	756-79-6	10,000 C	10,000 C	10,000 C	
DIMETHYLPHENOL, 2,4-	105-67-9	4,400 G	10,000 C	10,000 C	
DINITROBENZENE, 1,3-	99-65-0	22 G	280 G	190,000 C	
DINITROPHENOL, 2,4-	51-28-5	440 G	5,600 G	190,000 C	
DINITROTOLUENE, 2,4-	121-14-2	58 G	260 G	190,000 C	
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	220 G	2,800 G	190,000 C	
DINOSEB	88-85-7	220 G	2,800 G	190,000 C	
DIOXANE, 1,4-	123-91-1	[41] <u>58</u> N	[210] <u>290</u> N	[240] <u>330</u> N	
DIPHENAMID	957-51-7	6,600 G	84,000 G	190,000 C	
DIPHENYLAMINE	122-39-4	5,500 G	70,000 G	190,000 C	
DIPHENYLHYDRAZINE, 1,2-	122-66-7	22 G	99 G	190,000 C	
DIQUAT	85-00-7	480 G	6.200 G	190,000 C	
DISULFOTON	298-04-4		[7.6] <u>110</u> [N]	[8.7] [N] 10,000 C	
DITHIANE, 1,4-	505-29-3	2,200 G	28,000 G	190,000 C	
DIURON	330-54-1		5,600 G	190,000 C	
ENDOSULFAN	115-29-7	1,300 G	17,000 G	190,000 C	
ENDOSULFAN I (ALPHA)	959-98-8	1,300 G	17,000 G	190,000 C	
ENDOSULFAN II (BETA)	33213-65-9		17,000 G	190,000 C	
ENDOSULFAN SULFATE	1031-07-8		17,000 G	190,000 C	
ENDOTHALL ENDOTHALL	145-73-3		56,000 G	190,000 C	
ENDRIN	72-20-8		840 G	190,000 C	
EPICHLOROHYDRIN	106-89-8		[53] <u>79</u> N	[60] <u>91</u> N	
ETHEPHON	16672-87-0		14.000 G	190,000 C	
ETHION	563-12-2		1,400 G	10,000 C	
ETHOXYETHANOL, 2- (EGEE)	110-80-5		10,000 C	10,000 C	
ETHYL ACETATE	141-78-6	10,000 C	10,000 C	10,000 C	
ETHYL ACRYLATE	140-88-5	[23] <u>370</u> [N] <u>G</u>	<u>1,700 G</u>	10,000 <u>C</u>	
ETHYL BENZENE	100-41-4		10,000 C	10,000 C	
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4		10,000 C	10,000 C	
ETHYL ETHER	60-29-7		10,000 C		
ETHYL METHACRYLATE	97-63-2	10,000 C	[190,000] C <u>10,000</u>	[190,000] C <u>10,000</u>	
ETHYLENE GLYCOL	107-21-1	<u>7,700 N</u>		10,000 C	
ETHYLENE THIOUREA (ETU)	96-45-7		220 G	190,000 C	
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5		28 G	190,000 C	
FENAMIPHOS	22224-92-6	55 G	700 G	190,000 C	
FENVALERATE (PYDRIN)	51630-58-1	5,500 G	10,000 C	10,000 C	
FLUOMETURON	2164-17-2		36,000 G	190,000 C	
FLUORANTHENE	206-44-0	8,800 G	110,000 G	190,000 C	
FLUORENE	86-73-7	8,800 G	110,000 G	190,000 C	

All concentrations in mg/kg

G - Ingestion
[H]N - Inhalation
C - Cap

			Nonresidential		
REGULATED SUBSTANCE	CASRN	Residential	Surface	Subsurface	
REGULATED GODSTANGE	O AOINN	0-15 feet	Soil	Soil	
			0-2 feet	2-15 feet	
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	10,000 C	10,000 C	10,000 C	
FONOFOS	944-22-9	[140] 440 [N]	[380] [N]	[440] [N]	
EODMAL DELIVEE	50-00-0	G	<u>5,600 G</u> [130] <u>170</u> N	10,000 C [150] 200 N	
FORMALDEHYDE FORMIC ACID	64-18-6	[24] <u>34</u> N [10,000] [C]	[10,000] [C]	[10,000] [C]	
FORWING ACID	04-10-0	57 N	240 N	270 N	
FOSETYL-AL	39148-24-8	190,000 C	190,000 C	190,000 C	
FURAN	110-00-9	220 G	2,800 G	10,000 C	
FURFURAL	98-01-1	660 G	[2,600] N	[3,000] N	
			<u>4,000</u>	4,500	
GLYPHOSATE	1071-83-6	22,000 G	190,000 C	190,000 C	
HEPTACHLOR	76-44-8	4 G	18 G	190,000 C	
HEPTACHLOR EPOXIDE	1024-57-3	2 G	[9] <u>8.7</u> G	190,000 C	
HEXACHLOROBENZENE	118-74-1	11 G	50 G [560] G	190,000 C 10,000 C	
HEXACHLOROBUTADIENE	87-68-3	[44] <u>220</u> G	<u>1,000</u>	•	
HEXACHLOROCYCLOPENTADIENE	77-47-4	1,300 G	10,000 C	10,000 C	
HEXACHLOROETHANE	67-72-1	[220] <u>110</u> [G] <u>N</u>	[2,800] [G] <u>550</u> N	[190,000] [C] 640 N	
HEXANE	110-54-3	[3,800] [N]	10,000 C	10,000 C	
		<u>10,000 C</u>			
HEXAZINONE	<u>51235-04-2</u>	7,300 <u>G</u>	92,000 G	190,000 C	
HEXYTHIAZOX (SAVEY)	78587-05-0	5,500 G	70,000 G	190,000 C	
<u>HMX</u>	<u>2691-41-0</u>	11,000 G	140,000 G	190,000 C	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	[0.065] N <u>0.09</u>	[0.34] N <u>0.45</u>	[0.39] N <u>0.52</u>	
HYDROQUINONE	123-31-9	[8,800] G 320	[110,000] G 1,400	190,000 C	
INDENO[1,2,3-CD]PYRENE	193-39-5		110 G	190,000 C	
IPRODIONE	36734-19-7	8,800 G	110,000 G	190,000 C	
ISOBUTYL ALCOHOL	78-83-1	10,000 C	10,000 C	10,000 C	
ISOPHORONE	78-59-1	10,000 C	10,000 C	10,000 C	
ISOPROPYL METHYLPHOSPHONATE	<u>1832-54-8</u>	<u>10,000</u> <u>C</u>	10,000 C	<u>10,000</u> <u>C</u>	
KEPONE	143-50-0		5 G	190,000 C	
MALATHION	121-75-5		[4,000] [N] 10,000 C	[4,600] [N] 10,000 C	
MAN FIGURE A ZIDE	123-33-1	4,400 G 110,000 G	190,000 C	190,000 C	
MALEIC HYDRAZIDE	12427-38-2	1,100 G	14,000 G	190,000 C	
MANEB MERPHOS OXIDE	78-48-8		84 G	10,000 C	
METHACRYLONITRILE	126-98-7		[37] <u>56</u> N		
METHACK LONITRILE METHAMIDOPHOS	10265-92-6		140 G	190,000 C	
METHANOL	67-56-1		10,000 C	10,000 C	
METHOMYL	16752-77-5		70,000 G	190,000 C	
METHOXYCHLOR	72-43-5		14,000 G	190,000 C	
METHOXYETHANOL, 2-	109-86-4		[1,100] N 1,600	[1,200] N <u>1,800</u>	
METHYL ACETATE	79-20-9		10,000 C	10,000 C	
METHYL ACRYLATE	96-33-3		10,000 C	10,000 C	
METHYL CHLORIDE	74-87-3	[180] <u>250</u> N	[920] N <u>1,200</u>	[1,000] N <u>1,400</u>	

All concentrations in mg/kg G - Ingestion [H]N - Inhalation C - Cap

			Nonresi	idential
REGULATED SUBSTANCE	CASRN	Residential	Surface	Subsurface
REGULATED GODGTANGE	J GAGIKIT	0-15 feet	Soil	Soil
			0-2 feet	2-15 feet
METHYL ETHYL KETONE	78-93-3	10,000 C	10,000 C	10,000 C
METHYL ISOBUTYL KETONE	108-10-1	[1,500] [N]	[4,300] [N]	[4,900] [N]
	004 00 0	10,000 C	10,000 C	10,000 C
METHYL ISOCYANATE	624-83-9 504-78-6	19 N	<u>79 N</u> 400 N	91 N 460 N
METHYL N-BUTYL KETONE (2-HEXANONE) METHYL METHACRYLATE	<u>591-78-6</u> 80-62-6	96 N 10,000 C	10,000 C	10,000 C
METHYL METHACKYLATE METHYL METHANESULFONATE	66-27-3	180 G	800 G	[190,000] C
METHIC METHANESOLFONATE	00-27-3	100 0	000 0	10,000
METHYL PARATHION	298-00-0	[17] <u>55</u> [N]	[48] <u>700</u> [N]	[55] [N]
		<u>G</u>	<u>G</u>	<u>190,000 C</u>
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	[1,300] [G]	[17,000] [G]	[190,000] [C]
THE PARTY OF THE P	4004.04.4	770 N	3,200 N	3,600 N 3,700 N
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4 94-74-6	620 G 110 G	3,200 N 1,400 G	3,700 N 190,000 C
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	101-14-4		[610] <u>790</u> G	190,000 C
METHYLENE BIS(2-CHLOROANILINE), 4,4'- METHYLNAPHTHALENE, 2-	91-57-6	[4,400] G	[10,000] G	[10,000] C
IMETHYLNAPHTHALENE, 2-	91-37-0	880	11,000	190,000
METHYLSTYRENE, ALPHA	98-83-9	[15,000] [G]		[190,000] C
		<u>10,000 C</u>	<u>10,000</u>	<u>10,000</u>
METOLACHLOR	<u>51218-45-2</u>		<u>10,000</u> C	<u>10,000</u> <u>C</u>
METRIBUZIN	<u>21087-64-9</u>		<u>70,000</u> <u>G</u>	<u>190,000</u> <u>C</u>
MONOCHLOROACETIC ACID	<u>79-11-8</u>		<u>28,000</u> <u>G</u>	<u>190,000</u> <u>C</u>
NAPHTHALENE	91-20-3		56,000 G	190,000 C
NAPHTHYLAMINE, 1-	134-32-7		44 G	190,000 C
NAPHTHYLAMINE, 2-	91-59-8		44 G	190,000 C
NAPROPAMIDE	15299-99-7		190,000 C	190,000 C
NITROANILINE, M-	99-09-2		[160] <u>840</u> G [160] G	190,000 C 190,000 C
NITROANILINE, O-	88-74-4		<u>8,400</u>	·
NITROANILINE, P-	100-01-6	[13] <u>880</u> G	[160] G 4,000	190,000 C
NITROBENZENE	98-95-3	[110] <u>440</u> G	[1,400] G	10,000 C
NITTOGULANIDINE	556-88-7	22,000 G	5,600 190,000 C	190,000 C
NITROGUANIDINE	88-75-5		22,000 G	190,000 C
NITROPHENOL, 2-	100-02-7		22,000 G	190,000 C
NITROPHENOL, 4- NITROPROPANE, 2-	79-46-9		[0.61] N	[0.7] <u>0.94</u> N
INTROPROPANE, 2-	70400	0.16	0.82	
NITROSODIETHYLAMINE, N-	55-18-5	[0.0073] N 0.0041	[0.038] N 0.051	[0.044] N 0.059
NITROSODIMETHYLAMINE, N-	62-75-9	[0.023] N	[0.12] N	[0.13] N
		0.012	0.16	0.18
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3		15 G 11 G	10,000 C 10,000 C
NITROSODI-N-PROPYLAMINE, N-	621-64-7		16,000 G	190,000 C
NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N-	86-30-6 759-73-9		[0.57] <u>2.9</u> G	190,000 C
		<u>0.15</u>		
OCTYL PHTHALATE, DI-N-	117-84-0	[4,400] G 8,800	10,000 C	10,000 C
OXAMYL (VYDATE)	23135-22-0		70,000 G	190,000 C
PARAQUAT	1910-42-5			190,000 C

All concentrations in mg/kg

G - Ingestion
[H]N - Inhalation
C - Cap

PCB-1221 (AROCLOR) PCB-1232 (AROCLOR) PCB-1242 (AROCLOR) PCB-1248 (AROCLOR) PCB-1254 (AROCLOR)	56-38-2 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 1114-71-2	1,300 G 15 G [36] 9 G [36] 9 G [36] 9 G [36] 9 G [4.4 G	Surface Soil 0-2 feet 10,000 C 200 G [160] 40 G [160] 40 G [160] 40 G [44] 40 G	Subsurface Soil 2-15 feet 10,000 C 10,000 C 10,000 C 10,000 C
PARATHION PCB-1016 (AROCLOR) PCB-1221 (AROCLOR) PCB-1232 (AROCLOR) PCB-1242 (AROCLOR) PCB-1248 (AROCLOR) PCB-1254 (AROCLOR) PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROBENZENE PENTACHLORONITROBENZENE	56-38-2 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	1,300 G 15 G [36] <u>9</u> G [36] <u>9</u> G [36] <u>9</u> G [9.9] <u>9</u> G 4.4 G	0-2 feet 10,000 C 200 G [160] 40 G [160] 40 G [160] 40 G [44] 40 G	2-15 feet 10,000 C 10,000 C 10,000 C 10,000 C
PCB-1016 (AROCLOR) PCB-1221 (AROCLOR) PCB-1232 (AROCLOR) PCB-1242 (AROCLOR) PCB-1248 (AROCLOR) PCB-1254 (AROCLOR) PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROBITROBENZENE	12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	15 G [36] 9 G [36] 9 G [36] 9 G [9.9] 9 G 4.4 G	10,000 C 200 G [160] 40 G [160] 40 G [160] 40 G [44] 40 G	10,000 C 10,000 C 10,000 C 10,000 C
PCB-1016 (AROCLOR) PCB-1221 (AROCLOR) PCB-1232 (AROCLOR) PCB-1242 (AROCLOR) PCB-1248 (AROCLOR) PCB-1254 (AROCLOR) PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROBITROBENZENE	12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	15 G [36] 9 G [36] 9 G [36] 9 G [9.9] 9 G 4.4 G	200 G [160] 40 G [160] 40 G [160] 40 G [160] 40 G	10,000 C 10,000 C 10,000 C
PCB-1221 (AROCLOR) PCB-1232 (AROCLOR) PCB-1242 (AROCLOR) PCB-1248 (AROCLOR) PCB-1254 (AROCLOR) PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROETHANE PENTACHLORONITROBENZENE	11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	[36] 9 G [36] 9 G [36] 9 G [9.9] 9 G 4.4 G	[160] <u>40</u> G [160] <u>40</u> G [160] <u>40</u> G [44] <u>40</u> G	10,000 C 10,000 C
PCB-1232 (AROCLOR) PCB-1242 (AROCLOR) PCB-1248 (AROCLOR) PCB-1254 (AROCLOR) PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROETHANE PENTACHLORONITROBENZENE	11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	[36] 9 G [36] 9 G [9.9] 9 G 4.4 G	[160] <u>40</u> G [160] <u>40</u> G [44] <u>40</u> G	10,000 C
PCB-1242 (AROCLOR) PCB-1248 (AROCLOR) PCB-1254 (AROCLOR) PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROETHANE PENTACHLORONITROBENZENE	53469-21-9 12672-29-6 11097-69-1 11096-82-5	[36] <u>9</u> G [9.9] <u>9</u> G 4.4 G	[160] <u>40</u> G [44] <u>40</u> G	
PCB-1248 (AROCLOR) PCB-1254 (AROCLOR) PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROETHANE PENTACHLORONITROBENZENE	12672-29-6 11097-69-1 11096-82-5	[9.9] <u>9</u> G 4.4 G	[44] <u>40</u> G	10,000 C I
PCB-1254 (AROCLOR) PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROETHANE PENTACHLORONITROBENZENE	11097-69-1 11096-82-5	4.4 G		
PCB-1260 (AROCLOR) PEBULATE PENTACHLOROBENZENE PENTACHLOROETHANE PENTACHLORONITROBENZENE	11096-82-5			10,000 C
PEBULATE PENTACHLOROBENZENE PENTACHLOROETHANE PENTACHLORONITROBENZENE		F0.01 0 0	[44] <u>40</u> G	10,000 C
PENTACHLOROBENZENE PENTACHLOROBENZENE PENTACHLORONITROBENZENE	1114-71-2	[30] <u>9</u> G	[130] <u>40</u> G	190,000 C
PENTACHLOROETHANE PENTACHLORONITROBENZENE		10,000 C	10,000 C	10,000 C
PENTACHLORONITROBENZENE	608-93-5	180 G	2,200 G	190,000 C
	<u>76-01-7</u>	<u>200</u> G	<u>880</u> <u>G</u>	<u>10,000 C</u>
PENTACHLOROPHENOL	82-68-8	69 G	310 G	190,000 C
	87-86-5	. 150 G	660 G	190,000 C
PHENACETIN	62-44-2	8,100 G	36,000 G	190,000 C
PHENANTHRENE	85-01-8	66,000 G	190,000 C	190,000 C
PHENOL	108-95-2	[130,000] G	190,000 C	190,000 C
		<u>66,000</u>		
PHENYL MERCAPTAN	<u>108-98-5</u>	<u>2.2 N</u>	<u>28 N</u>	<u>10,000 N</u>
PHENYLENEDIAMINE, M-	108-45-2	1,300 G	17,000 G	190,000 C
PHENYLPHENOL, 2-	90-43-7	[9,200] G <u>9,400</u>	[41,000] G <u>42,000</u>	190,000 C
PHORATE	298-02-2	[13] <u>44</u> [N]	[37] <u>560</u> [N]	[43] [N]
		<u>G</u>	G	10,000 C
PHTHALIC ANHYDRIDE	85-44-9	190,000 C	190,000 C	190,000 C
PICLORAM	1918-02-1	15,000 G	190,000 C	190,000 C
PROMETON	<u>1610-18-0</u>	<u>3,300</u> <u>G</u>	42,000 <u>G</u>	<u>190,000</u> <u>C</u>
PRONAMIDE	23950-58-5	17,000 G	190,000 C	190,000 C
PROPANIL	709-98-8	1,100 G	14,000 G	190,000 C
PROPANOL 2- (ISOPROPYL ALCOHOL)	<u>67-63-0</u>	<u>10,000 C</u>	<u>10,000</u> <u>C</u>	<u>10,000</u> <u>C</u>
PROPAZINE	<u>139-40-2</u>	<u>4,400 G</u>	<u>10,000</u> <u>C</u>	<u>10,000</u> <u>C</u>
PROPHAM	122-42-9		56,000 G	190,000 C
PROPYLBENZENE, N-	103-65-1	8,800 G	10,000 C	10,000 C
PROPYLENE OXIDE	75-56-9	75 G	330 G	[510] <u>690</u> N
PYRENE	129-00-0		84,000 G	190,000 C
PYRIDINE	110-86-1	[67] <u>220</u> [N] <u>G</u>	[190] [N] 2,800 G	[210] [N] <u>10,000 C</u>
QUINOLINE	91-22-5	[1.5] <u>6</u> G	[6.6] <u>26</u> G	10,000 C
QUIZALOFOP (ASSURE)	76578-14-8	2,000 G	25,000 G	190,000 C
RDX	121-82-4	160 G	720 G	190,000 C
RESORCINOL	108-46-3	190,000 C	190,000 C	190,000 C
RONNEL	299-84-3		140,000 G	190,000 C
SIMAZINE	122-34-9	150 G	660 G	190,000 C
STRYCHNINE	57-24-9		840 G	190,000 C
STYRENE	100-42-5		10,000 C	10,000 C
TEBUTHIURON	34014-18-1		190,000 C	190,000 C
TERBACIL	5902-51-2		36,000 G	190,000 C
TERBUFOS	13071-79-9		[4.6] <u>70</u> [N] G	
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3		840 G	190,000 C

All concentrations in mg/kg G - Ingestion
[H]N - Inhalation
C - Cap

			Nonresi	idential
REGULATED SUBSTANCE	CASRN	Residential	Surface	Subsurface
NEGOLATED GODGIANGE	S/ISINIT	0-15 feet	Soil	Soil
			0-2 feet	2-15 feet
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	[0.00012] G 0.00014	[0.00053] G 0.00061	190,000 C
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	[690] <u>60</u> [G]	[3,100] [G] <u>300</u> N	[190,000] [C] 340 N
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	[5.5] <u>7.7</u> N	[28] <u>38</u> N	[33] <u>44</u> N
TETRACHLOROETHYLENE (PCE)	127-18 -4	340 G	1,500 G	[3,300] N <u>4,400</u>
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	6,600 G	84,000 G	190,000 C
TETRAETHYL LEAD	78-00-2	0.022 G	0.28 G	10,000 C
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	<u>G</u>	[92] <u>1,400</u> [N] <u>G</u>	[110] [N] <u>10,000 C</u>
<u>TETRAHYDROFURAN</u>	<u>109-99-9</u>	<u>230 N</u>	<u>1,100 N</u>	<u>1,300 N</u>
THIOFANOX	39196-18-4	66 G	840 G	190,000 C
THIRAM	137-26-8		14,000 G	190,000 C
TOLUENE	108-88-3	[7,600] [N] <u>10,000</u> <u>C</u>	·	10,000 C
TOLUIDINE, M-	108-44-1			10,000 C
TOLUIDINE, O-	95-53-4		[330] <u>440</u> G	10,000 C
TOLUIDINE, P-	106-49-0		420 G	190,000 C
TOXAPHENE	8001-35-2		72 G	190,000 C
TRIALLATE	2303-17-5	2,900 G	[36,000] [G] <u>10,000</u> <u>C</u>	10,000 C
TRIBROMOMETHANE (BROMOFORM)	75-25-2	[290] <u>410</u> N	[1,500] N <u>2,000</u>	[1,700] N <u>2,300</u>
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	[190,000] C <u>10,000</u>	[190,000] C <u>10,000</u>	[190,000] C 10,000
TRICHLOROBENZENE, 1,2,4-	120-82-1		10,000 C	10,000 C
TRICHLOROBENZENE, 1,3,5-	108-70-3		17,000 G	190,000 C
TRICHLOROETHANE, 1,1,1-	71-55-6		10,000 C	10,000 C
TRICHLOROETHANE, 1,1,2-	79-00-5		[100] <u>140</u> N	[120] <u>160</u> N
TRICHLOROETHYLENE (TCE)	79-01-6	[190] <u>260</u> N	[970] N <u>1,300</u>	[1,100] N <u>1,500</u>
TRICHLOROPHENOL, 2,4,5-	95-95-4		190,000 C	190,000 C
TRICHLOROPHENOL, 2,4,6-	88-06-2	[66] <u>220</u> G	[840] G <u>2,800</u>	190,000 C
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5		28,000 G	190,000 C
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	·	22,000 G	190,000 C
TRICHLOROPROPANE, 1,1,2-	598-77-6			
TRICHLOROPROPANE, 1,2,3-	96-18-4	[0.16] <u>2.6</u> [N] <u>G</u>	G	[0.95] <u>460</u> [N] <u>G</u>
TRICHLOROPROPENE, 1,2,3-	96-19-5	[1,100] <u>19</u> [G] <u>N</u>	[10,000] [C] <u>80</u> <u>N</u>	<u>91 N</u>
TRIETHYLAMINE	<u>121-44-8</u>		<u>560</u> <u>N</u>	<u>640</u> <u>N</u>
TRIFLURALIN	1582-09-8		10,000 G	190,000 C
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	[110] <u>130</u> N	[320] <u>560</u> N	[360] <u>640</u> N
TRIMETHYLBENZENE, 1,3,5-	108-67-8		[320] <u>480</u> N	[360] <u>550</u> N
TRINITROGLYCEROL (NITROGLYCERIN)	<u>55-63-0</u>		<u>280</u> <u>G</u>	<u>10,000</u> <u>C</u>
TRINITROTOLUENE, 2,4,6-	118-96-7	110 G	1,400 G	190,000 C

All concentrations in mg/kg

G - Ingestion
[H]N - Inhalation
C - Cap

APPENDIX A TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL A. Direct Contact Numeric Values

			Nonres	idential
REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Surface Soil 0-2 feet	Subsurface Soil 2-15 feet
VINYL ACETATE	108-0-5-4	[3,800] N 3,900	10,000 C	10,000 C
VINYL BROMIDE (BROMOETHENE)	593-60-2	[160] <u>14</u> [G] <u>N</u>	[720] <u>70</u> [G] <u>N</u>	[190,000] [C] <u>80</u> <u>N</u>
VINYL CHLORIDE	75-01-4	[12] <u>1.9</u> G	[53] <u>110</u> G	[220] <u>580</u> N
WARFARIN	81-81-2	66 G	840 G	190,000 C
XYLENES (TOTAL)	1330-20-7	[8,000] N <u>1,900</u>	[10,000] [C] <u>8,000</u> N	[10,000] [C] <u>9,100</u> N
ZINEB	12122-67-7	11,000 G	140,000 G	190,000 C

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquirers	lirers					Non-Use	Non-Use Aquifers		
			. ≥ SQL	≤ 2500			TDS >	. 2500) John Harris		Soil
DECILI ATED SIIBSTANCE	NGCAC	Residential	ential	Non-R	Non-Residential	Resid	Residential	Non-Re	Non-Residential	Resi	Residential	Non-Residentia	idential	Buffer
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
ACENAPHTHENE	83-32-9	220	2.700 E		4.700 E	380	4,700E	380	4,700E	380	4,700 E	380	4,700 E	15
ACENAPHTHYLENE	208-96-8	220			6,900 E	1,600	18,000 E	1,600	18,000 E	1,600	18,000 E	1,600	18,000 E	15
	30560-19-1	7.6					30E	3,000	360 E		0.9 E		3.6 E	NA
ЧҮDЕ	75-07-0		0.23 E	₹.	[0.63] E 0.96	190	23 E	[520] 790	[63] <u>96</u> [E	1.9	0.23 E	[5.2] 7.9	[0.63] E 0.96	A
ACETONE	67-64-1	[370] 3,300	[41] <u>370</u> E	[1,000] 9,200	[110] E 1,000	10,000	[4,100] [10,000 E	10,000	10,000 C	10,000	[410] E	10,000	[1,100] E 10,000	Ϋ́
ACETONITRILE	75-05-8	[17] 13	[1.9] <u>1.5</u> E	[35] 53	[3.9] <u>6</u> E	[1,700]	[190] E	[3,500]	[390] 600	[170]	[19] <u>15</u> E	[350]	[39] <u>60</u> E	¥
ACETOPHENONE	98-86-2	37	200 E	1,000	540 E		10.000 C	_	10.00C		200 E	-	540 E	¥
ACETYLAMINOFLUORENE, 2-	53-96-3	0	0.07 E	0.068	0.28 E	1.7	7 E	8.9	28 E	17	70 E	89	280 E	20
ACROLEIN	107-02-8	[0.0055] 0.0042		[0.012] 0.018	[0.0014] E	0.42	[0.062] E 0.047	[1.2] 1.8	[0.14] E	1 0.042	[0.0062] E	[0.12] 0.18	[0.014] E 0.02	¥
			0.00047											
ACRYLAMIDE	79-06-1	[0.0033] 0.0038	으 이	[0.014] 0.019	[0.0024] E	[0.33]	[0.057] E 0.07	[4.1] [1.9]	[0.24] E	으인	[0.00057] <u>0.0007</u>		[0.0024 E	₹
ACRYLIC ACID	79-10-7	[0.28] 0.21	[0.051] E 0.039	[0.58] 0.88	[0.11] E 0.16	[28] 21	[5.1] 3.9	[58]	[11] 16 E	[28]	[5.1] <u>3.9</u> E	[58] 88	[11] <u>16</u> E	NA
ACRYLONITRILE	107-13-1	[0.063] 0.072	[0.0087] E	[0.27] 0.37	[0.037] E 0.051	[6.3] 7.2	[0.87] <u>1</u> E	[27] 37	[3.7] E	[6.3] 7.2	으	[27] <u>37</u>	[3.7] E	₹
ALACHLOR	15972-60-8		0.077 E	0.2	0.077 E	20	7.7 E		7.7 E	. 0.2	0.077 E		0.077 E	₹
ALDICARB	116-06-3		[0.12] E	_	[0.12] E 0.05	[70]	[12] <u>5</u> E	[0/]	[12] <u>5</u> E	<u> </u>	7	_	[120] [50]	¥
ALDICARB SULFONE	1646-88-4	0.2	0.027 E	0.2		20	2.7 ⊑		2.7 ⊑	0.2			0.027 <u>E</u>	¥I
ALDICARB SULFOXIDE	1646-87-3	0.4	0.045 E	0.4	0.045 E	4	4.5 E	40	<u>4.5</u> <u>E</u>			9.4	0.045 E	≨I
ALDRIN	309-00-2	309-00-2 [0.00087] 0.0039	[0.1] E 0.47	[0.0037] 0.015	[0.44] 1.8	으	[10] <u>47</u> E			[0.087]	[10] <u>240</u> E		24. 14. 14.	
ALLYL ALCOHOL	107-18-6	[4.9] 0.063	[0.58] E 0.0075	[10] 0.26	[1.2] E 0.031	[490] 6.3	[58] E 0.75	[1,000] <u>26</u>	[120] E 3.1	[490] 6.3	[58] <u>0.75</u> E	[1,000]	[120] E 3.1	¥ V

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					A 17 - 11									
					Osea Adullers	Siers					Non-Ilse	Non-Use Aquifers		
			TDS ≤ 2500	2500			TDS >	2500				o io iiinhu		Soil
PEGIII ATED SIIBSTANCE	CASBN	Resid	sidential	Non-Re	Non-Residential	Resid	Residential	Non-Re	Non-Residential	Resi	Residential	Non-Residentia	idential	Buffer
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
AMETRYN	834-12-8	9	6.5 E	9	6.5 E	009	650 E	009	650 <u>E</u>	9	6.5 <u>E</u>	9	6.5 E	NA
AMINOBIPHENYL, 4-	92-67-1	0.0031	0.0012 E	0.01	0.0046 E	0.31	0.12 E	1.2	0.46 E	3.1	1.2 E	12	4.6 E	NA
AMITROLE	61-82-5	0.07	0.029 E	0.28	0.12 E	7	2.9 E	28	12 E	20	29 E	280	120 E	NA
AMMONIA	7664-41-7	3,000	360 E	3,000	360 E	10,000	10,000 C		10,000 C	3	360 E	3,000	360 E	ΑN
AMMONIUM SULFAMATE	7773-06-0	200	24 E	200	24 E	20,000	2,400 E	20,000	2,400 E	200	24 E	200	24 E	ΑA
ANILINE	62-53-3	[0.28] 0.21	[0.16] E 0.12	[0.58] 0.88	[0.34] E 0.52	[28] <u>21</u>	[16] <u>12</u> E	[58] 88	[34] <u>52</u> E	0.28]	[0.16] E	0.58]	[0.34] E 0.52	¥
ANTHRACENE	120-12-7	9.9	350 E	9.9	350 E	9.9	320 E	9.9	350 E	9.9	320 E	9.9	350 E	10
ATRAZINE	1912-24-9		0.13 E	0.3	0.13 E	30	13 E	30	13 E	0.3	0.13 E	0.3	0.13 E	
AZINPHOS-METHYL (GUTHION)	86-50-0		12 E		35 E	1,100	1,200 E	3,100	3,500 E	11	12 E	31	35 E	≨l
BAYGON (PROPOXUR)	114-26-1	0.3	0.057 E	0.3	0.057 E	30	5.7 E		5.7 E		57 E		57 E	l
BENOMYL	17804-35-2		880 E	200	970 E	200	970 E	200	3 026	180	880 E	200	970 E	20
BENTAZON	25057-89-0	[110	[16] <u>2.9</u> E	[310]	[45] <u>2.9</u> E	12,000	[1,600] E	1 2 000	[4,500] 290	[110]	[16] <u>2.9</u> E	[310] 20	[45] <u>2.9</u> E	Š
BENZENE	71-43-2	0.5	0.13 E		0.13 E	202	13 E	٦			13 E	20	13 E	¥
BENZIDINE	92-87-5	[0.00029]	[0.38] E	0.0011	1.5 E	[0.029]	[38] <u>12</u> E	0.11	150 E	[0.29]	[380] E 120	1.1	1,500 E	5
BENZO[A]ANTHRACENE	56-55-3	[0.09]	2	0.36	320 E		3096	1.1	3096	<u>+</u>	3096	1.	960 E	5
BENZO[A]PYRENE	50-32-8	0.02	46 E	0.02	46 E	0.38	860 E			Ш	860 E		860 E	5
BENZO[B]FLUORANTHENE	205-99-2	[0.09] 0.029	[120] <u>40</u> E	0.12	170 E	0.12	170 E						170 E	5
BENZO[GHI]PERYLENE	191-24-2	0.026			180 E					- 1			180 E	5
BENZOĮKJFLUORANTHENE	207-08-9	0.055			610 E	0.055		0.055				0.055	610 E	- 1
BENZOIC ACID	65-85-0	15,000		41,000	7,800 E	훤	52,000 E	52,000 E 190,000	52,	읩	2,900 E	41,000	7,800 E	¥
BENZOTRICHLORIDE	98-07-7	0.0051			0.048 E	- 1	1.2 E						48 E	30
BENZYL ALCOHOL	100-51-6	[1,100] 1,800	[400] [550		[1,100] E 1,800	10,000	10,000 C	10,000	10,0	드그	- 1		[1,100] E 1,800	₹
BENZYL CHLORIDE	100-44-7	[0.087] 0.1	[0.051] E 0.059	[0.37] 0.51	[0.22] E 0.3	[8.7] 10	[5.1] E 5.9	[37] <u>51</u>	-		[5.1] <u>5.9</u> E	[37] <u>51</u>	[22] <u>30</u> E	₹
BETA PROPIOLACTONE	57-57-8	0	0.00015 E	Ō	0.00076 E	0.1	0.015 E	ា	3	의	0.0015 E	읭	0.0076 E	≨l
BHC, ALPHA	319-84-6		٥	٥	0.19 E		4.6 E	Ì	19 E		46 E		190 E	20
ВНС, ВЕТА-	319-85-7	0.037	0.22 E	0.14	0.82 E	3.7	22 E	10		10	29 E	10	59 E	15

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

CASRN [319-86-8] 58-89-9 92-52-4 111-91-1 111-44-4 1108-60-1									_	Non-Ilse	Non-Use Aguifers		
[319-86-8 [319-86-8 58-89-9 92-52-4 111-91-1 111-44-4		TDS ≤ 2500	200			TDS > 2500	2500				Siolinky .		Soil
1319-86-8 58-89-9 92-52-4 111-31-1	Reside	ential	Non-Re	Non-Residential	Residential		Non-Residential	sidential	Resi	Residential	Non-Residentia	sidential	Buffer
58-89-9 92-52-4 111-91-1 108-60-1	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
58-89-9 92-52-4 111-91-1 111-44-4	[2.2]	[11] [E	[6.1]	[30] [E	[220]	[1,100] [E 1	[610]	[3,000] []	[800]	[3,900] [[]	[800]	[3,900] [E]	[20]
92-52-4 111-91-1 111-44-4 108-60-1	0.02	0.072 E	0.02	0.072 E	2	7.2 E	2	7.2 E	20	72 E	20	72 E	20
111-91-1 111-44-4 108-60-1	180	790 E	510	2,200 E	720	3,100 E	720	3,100 E	720	3,100 E	7	3,100 E	20
111-44-4	뒤	2.9 E	ह्य	8.2 E	1,100	2 <u>90</u> E	3,100	820 E		2.9 E		8.2 E	NA NA
HER	[0.013] 0.015	[0.0039] E 0.0045	[0.055] 0.076	[0.017] E 0.023	[1.3] 1.5	[0.39] E 0.45	[5.5] 7.6	[1.7] E	1.5	[0.39] E 0.45	[2	[1.7] E	A A
	30	8 E		8 E	3,000	800 E	3,000	800 E		800 E			₹ V
BIS(CHLOROMETHYL)ETHER 542-88-1 [0.000069]		[0.00001 E	[0.0002]	[0.00004 E [0.0069 4]]	[0.0069	0.001 E	[0.029] 0.04	10.0044 10.006	E [0.006	0.001 E	[0.029] 0.04	[0.0044 E	∀
20	0.000079	0.00001	0.0004	0.00006	0.0079				0.0079				
BIS[2-ETHYLHEXYL] 117-81-7 PHTHALATE	9.0	130 E	9.0	130 E	29	6,300 E	29	6,300 E		6,300 E		6,300 E	10
BISPHENOL A 80-05-7	180	700 E	510	2,000 E	12,000	46,000 E	12,000	46,000 E	7	46,000 E	7	46,000 E	20
BROMACIL 314-40-9	Z [8]	[2] <u>1.8</u> E	Z [8]	[2] <u>1.8</u> E	[800]	[200] 180	[800] 700]	[200] E	[8]	[2] 1.8 E	[8]	[2] <u>1.8</u> E	
BROMOCHLOROMETHANE 74-97-5	6	1.6 E	6	1.6 E	006	160 E	006	160 E		1.6		1.6 E	
BROMODICHLOROMETHANE 75-27-4	[10] 8	[3.4] <u>2.7</u> E	[10] 8	[3.4] <u>2.7</u> E	[1,000] 800	[340] E 270	[1,000] 800	[340] E 270	[10] 8	[3.4]	[10]	[3.4] E	
BROMOMETHANE 74-83-9	-	0.54 E	-	0.54 E	100	24 E	100	54		54 E		24 E	1
16	73	63 E	200	170 E	7,300	6,300 E	13,000	11,000 E	73	63 E	20	170 E	
OCTANOATE 1689-99-2	8	360 E	8	360 E	8	360 E	8	360 E		360 E		360 E	
106-99-0	[0.015] 0.019	[0.0062] E 0.0078	[0.065] 0.076	[0.027] E 0.031	(년)	[0.62] E 0.78	[6.5] 7.6	[2.7] E		[0.62] E 0. <u>78</u>	_	[2.7] E 3.1	
BUTYL ALCOHOL, N- 71-36-3 [9	[97] 370	[12] <u>44</u> E	[200] 1,000	[24] <u>120</u> E	[9,700] 10,000	[1,200] <u>4,400</u>	10,000	[2,400] 10,000	[[970] E 3,700	[120] 440 440	[2,000] 10,000	[240] E	₹
									-OI				

¹ For other options see Section 250.308 All concentrations in mg/kg E - Number calculated by the soil to groundwater equation in Section 250.308 C - Cap NA - The soil buffer distance option is not available for this substance

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aguifers	ifers						3.		
			TDS ≤ 2500	2500			TDS >	> 2500			NOII-086	NOII-OSE Aquileis		Soil
BECIII ATED SLIBSTANCE	NGOAC	Resid	dential	Non-Re	Non-Residential	Residential		Non-Residentia	sidential	Resi	Residential	Non-Residential	idential	Buffer
		100 X GW	Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW SW	Generic Value	100 X GW SC	Generic Value	(feet)
BUTYLATE	2008-41-5	[35] 40	[51] <u>58</u> E		[51] <u>58</u> E	+==	[5,100] E	[3,500]	[5,100] E 5,800		[51] <u>58</u> E	[35] 40	[51] <u>58</u> E	30
BLITY! BENZENE N.	104-51-8	150	950 F	410	2 600 E	1.500	9.500 E	1.500	9,500 E		950 E	410	2,600 E	15
BLITYL BENZENE SEC.	135-98-8	150	350 E		3096	1,700	4,000 E	1,700	4,000 E	150	350 E	410	360 E	30
BLITYI BENZENE, TERT-	9-90-86	1	270 E	410	740 E	3,000	5,400 E	3,000	5,400 E	150	270 E		740 E	30
BUTYLBENZYL PHTHALATE	85-68-7	[270] 35	110,000] 3,000 1 1	[270] 140	10,000 C	270	10,000 C	0						
CABTAN	133-06-2	1191 29	1121 18 F	20	31 E	20	31 E	20	31E	20	31 E	20	31E	¥
CARBARYL	63-25-2	_		50	[41] <u>590</u> E	[7,000] 12,000	[4,100] E 7,000	[7,000] 12,000	[4,100] E	12,000	7,000 E	12,000	7,000 E	N A
CABBAZOI E	86-74-8	3.3	21 E	1	83 E	120	760 E	120	760 E	120	760 E	120	760 E	15
CARROFURAN	1563-66-2		0.87 E	4	0.87 E	400	87 E	400	87 E		0.87 E	4	0.87 E	¥
CARBON DISULFIDE	75-15-0	75-15-0 [190] 150	[160] E	[410] 620	[350] E 530	10,000	10,000 C	10,000	10,000 C	[190] 150	[160] E 130	[410] 620	[350] 530	₹
CARBON TETRACHI ORIDE	56-23-5	0.5	0.26 E		0.26 E	20	26 E	20	26 E	2	2.6 E	5	2.6 E	AA
CARBOXIN	5234-68-4		53 E	2	53 E	2,000	5,300 E	2,000	5,300 E	02	53 E	70	53 E	¥
CHLORAMBEN	133-90-4	10	1.6 E	10	1.6 E	1,000	160 E	1,000	160 E		1.6 E		1.6 E	¥
CHIORDANE	57-74-9	0.2	49 E	0.2	49 E	9.6	1,400 E		1,400 E		1,400 E		1,400 E	10
CHLORO-1,1-	75-68-3	[14,000]	[2,300] E 1,800	[29,000]	[4,800] E 7,300	[140,00 0]	[23,000 [] E	[140,00 0]	[23,000 []E	24,8 0.0	[2,300] 1,800	[29,000] 10,000	[4,800] E 7,300	₹ Ž
				10,000		10,000	10,000 C	10,000	10,000 C	10,000				
CHLORO-1-PROPENE, 3-	107-05-1	[0.28]	[0.065] E 0.049	[0.58] 0.88	[0.13] E 0.2	[28] <u>21</u>	[6.5] E	<u>88</u> [85]	[13] <u>20</u> E	[28]	[6.5] <u>4.9</u> E	[28	73	₹
CHLOROACETOPHENONE, 2-	532-27-4	೭	[0.0093] E	[0.088] 0.31	[0.026] E 0.093	[3.1] 11	[0.93] E	[8.8] 31	[2.6] 9.3	도 원	[9.3] <u>33</u> E	[88] 310	[26] <u>93</u> E	¥ Y
CHLOROANILINE, P-	106-47-8	[15]	[19] <u>0.42</u> E	[41] 1.3	[52] <u>1.6</u> E	[1,500]	[1,900] E	[4,100] 130	[5,200] E 160	[15] 0.33	[19] <u>0.42</u> E	[41] 1.3	[52] <u>1.6</u> E	₹
CHLOROBENZENE	108-90-7	10	6.1 E	10	6.1 E	1,000	610 E	1	610 E	`	610 E		610 E	¥
CHLOROBENZILATE	510-15-6	[0.24] <u>0.6</u>	[1.6] <u>4</u> E	[0.96] 2.4	[6.3] <u>16</u> E	[24] 60	[160] 400	[96] 240	[630] E 1,600	[240] 600	[1,600] 4,000	[960] 1,300	[6,300] E 8,600	15

¹ For other options see Section 250.308
All concentrations in mg/kg
E - Number calculated by the soil to groundwater equation in Section 250.308
C - Cap
NA - The soil buffer distance option is not available for this substance

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquifers	ifers								
			≥ SQT	2500			TDS >	2500		_	Non-Use	non-Use Aquirers		Soil
HOGI G	MOOV	Resid	dential	Non-Re	Non-Residential	Resid	Residential	Non-Re	Non-Residential	Resi	Residential	Non-Residentia	sidential	Buffer
REGULATED SUBSTANCE	CASKIN	100 X	Generic	100 X	Generic	100 X	Generic	100 X	Generic	¥ 20 20 20 20 20 20 20 20 20 20 20 20 20 2	Generic	100 X	Generic	Distance (feet)
		MSC Se	Value	MSC	Value	MSC	Value	MSC	Value	MSC	Value	MSC	Value	
CHLOROBUTANE, 1-	109-69-3	[1,500]	[2,300] E 230	[4,100] 410	[6,400] E 640	10,000	10,000 C		10,000 C		[2,300] E 230	[4,100] 410	[6,400] E <u>640</u>	30
CHLORODIBROMOMETHANE	124-48-1	[10] 8	[3.2] <u>2.5</u> E	[10] 8	[3.2] <u>2.5</u> E	[1,000] 800	[320] E 250	[1,000]	[320] 250	1,000	[320] E 250	[1,000]	[320] E 250	NA
CHLORODIFLUOROMETHANE	75-45-6	10,000	[2.6] E	10,000	[2.6] E 10,000	[1,000] 10,000	[260] [10,000 E	[1,000]	[260] [10,000 E	[10]	[2.6] E 2,800	[10] 10,000	[2.6] E 10,000	AN A
							¬∪		-01					
CHLOROETHANE	22-00-3	23	5 E	90	19 E	- 1	500 E		1,900 E	``	200 E		- 1	Ϋ́
CHLOROFORM	67-66-3	[10] 8	[2.5] <u>2</u> E	[10]	[2.5] <u>2</u> E	7,000 (2,000)	[250] E 200	[1,000]	[250] 200		[25] <u>20</u> E	[100]	[25] <u>20</u> E	₹
CHLORONAPHTHALENE, 2-	91-58-7	290	6,200 E	820	18,000 E	1,200	26,000 E	1,200	26,000 E	``	6,200 E	820	- 1	15
CHLORONITROBENZENE, P-	100-00-5	3.7	4.9 E	[14] 10	[18] <u>13</u> E	370	490 E	[1,400] 1,000	[1,800] <u>1,300</u>	3.7	4.9 E	[14] 10	[18] <u>13</u> E	¥ ¥
CHLOROPHENOL, 2-	95-57-8	4	4.4 E	4	4.4 E		440 E		440 E		4.4			¥
CHLOROPRENE	126-99-8	[1.9] 1.5	[0.45] E 0.35	[4.1]	[0.97] E 1.5	[190] 150	[45] <u>35</u> E	[410] 620	150 150	[190]	[45] <u>35</u> E	[410] 620	[97] E 150	NA
CHLOROPROPANE, 2-	75-29-6	[28] 21	[21] 16 E	[58] 88	[44] <u>67</u> E	[2,800] 2,100	[2,100] E 1,600	[5,800] 8,800	[4,400] E 6,700	[28]	[21] <u>16</u> E	[58] 88	[44] <u>67</u> E	Α̈́
CHLOROTHALONIL	1897-45-6	[6] 21	[15] <u>54</u> E	[24] 60	[61] <u>150</u> E	[60]	[150] E 150		[150] 150	[6] 21	[15] <u>54</u> E	[24] 60	[61] E 150	30
CHLOROTOLUENE. O-	95-49-8	10	20 E	10	20 E		2,000 E	1,000	2,000 E		20 E		20 E	
CHLOROTOLUENE, P-	106-43-4	10	10 E	19	10 E	1,000	1,000 E	1,000	1,000 E	_	위	위	10 E	_]
CHLORPYRIFOS	2921-88-2	[2] 0.2	[23] <u>2.3</u> E	[2] 0.2	[23] <u>2.3</u> E	[110 <u>]</u>	[1,300] E 230		[1,300] E 230	[2] 0.2	[23] <u>2.3</u> E	[2]	[23]	
CHLORSULFURON	64902-72-3	180	25 E	510	71 E	[13,000] 18,000	[1,800] E <u>2,500</u>	[13,000] 19,000	[1,800] <u>2,600</u>	180	25 E	510	71 E	₹
CHLORTHAL-DIMETHYL (DACTHAL)	1861-32-1	[40]	[650] E	[40] 7	[650] E	20	820 E	20	820 E	20	820 E	20	820 E	15
l	218-01-9	0.19	230 E	0.19	230 E	0.19	230E		230 E		230 E		230	1
CRESOL(S)	1319-77-3	18	3.1 E	51	8.9 E	1,800	310 E	5,	890 E	-	310 E			
CRESOL, 4,6-DINITRO-O-	534-52-1	0.37	0.28 E	-	0.75 E	37	28 E	100	75 E	370	280 E	1,000	<u>750</u> <u>E</u>	¥

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All concentrations in mg/kg
E - Number calculated by the soil to groundwater equation in Section 250.308
C - Cap
NA - The soil buffer distance option is not available for this substance

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquifers	ifers					Non Hea	Aginibara		
			TDS ≤ 2	≤ 2500			TDS >	TDS > 2500			Non-Use	non-Use Aquirers		Soil
PECILI ATED SUBSTANCE	NGOV	Reside	ential	Non-Re	Non-Residential	Residential	ential	Non-Re	Non-Residential	Resi	Residential	Non-Residentia	idential	Buffer
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
CRESOL, O- (2- METHYLPHENOL)	95-48-7	180	[64] <u>30</u> E	10	[180] <u>85</u> E	[10,000 18,000	[6,400] E	[10,000] 51.000	[10,000 C] <u>8,500</u>	[10,00 18,000	[6,400] E	[10,000], 51,000	[10,000 C] <u>8,500</u>	N A
CRESOL, M- (3- METHYLPHENOL)	108-39-4	180	36 E	510	100 E	10,000	3,600 E		10,000 C	10,000	10,000 C	10,000	10,000 C	Ϋ́
CRESOL, P- (4- METHYLPHENOL)	106-44-5	18	4.2 E	51	12 E	1,800	420 E	5,100	1,200 E	18,0	4,200 E	51,000	12,000 E	A A
CRESOL P-CHLORO-M-	29-20-2	18	37 E	51	110 E	1,800	3,700 E	5,100	11,000 E		37 E	51	110 E	30
CROTONALDEHYDE	4170-30-3	[0.0079] 0.035	[0.00099 E	[0.034] 0.14	[0.0043] E 0.018	[6.79] 3.5	[0.099] E 0.44	[3.4] 14	[0.43] E		[0.099] E 0.44	[3.4] 14	[0.43] E 1.8	Υ Y
CROTONALDEHYDE, TRANS-	123-73-9	[0.0079] 0.035	[0.001] E 0.0044	[0.034]	[0.0043] E 0.018	[0.79] 3.5	[0.1] E 0.44	[3.4] 14	[0.43][E	E [0.79]	[0.1] E 0.44	[3.4] 14	[0.43] E	A A
CUMENE (ISOPROPYL BENZENE)	98-82-8	Ξ.	[780] 600	[230] 350	[1,600] E 2,500	2,000	10,000 C	2,000	10,000	c 5,000	10,000 C	5,000	10,000 C	15
Ц	21725-46-2	0.1	0.061 E	9	0.061 E	9	6.1 E	9	6.1 E	0.1	0.061 E		0.061 E	NA
ANE	110-82-7	1	1,700 E	S	6,900 E	5,500	7,200 E	2,500	7,200 E		1,700 E	5,300	6,900 E	Ϋ́
CYCLOHEXANONE	108-94-1	[4,900] 10,000	[1,400] E 5,000	10,000	[2,800] [10,000 E 1 1 C	10,000	10,000 C	10,000	10,000 C	[4,900] 10,000	[1,400] E <u>5,000</u>	10,000	[2,800] E 10,000	Y V
CYFLUTHRIN	68359-37-5	0.1	33 E	0.1	33 E	0.1	33 E	0.1	33 E	E 0.1	33 E	0.1	33 E	10
	66215-27-8	27	84 E	77	240 E	2,700	8,400 E	7,700	24,000 E	E 27	84 E	77	240 E	
	72-54-8	[0.062] 0.28	[6.8] <u>31</u> E	[0.27] 1.1	[30] <u>120</u> E	[6.2] 16	[680] 1,800	9	1,800 E	= [6.2]	[680] E 1,800	16	1,800 E	
DDF 44'-	72-55-9		41 E	0.76	170 E	4	870 E	4	870E	= 4	870 E	4	870 E	10
DDT 4.4'-	50-29-3		110 E	0.55	330 E	0.55	330 E	0.55	330 E		330			5
DI(2-ETHYLHEXYL)ADIPATE	103-23-1		10,000 C	40	10,000 C	4,000	10,000 C	Ù	10,000	인	10,000		10,000 C	2
DIALLATE	2303-16-4	[0.25] 1.1	[0.15] E 0.64	[1] 4.3	[0.59] E 2.5	[25] 110	[15] <u>64</u> E	100	[59] 250	E [25] 1,100	[15] <u>640</u> E	[100] 4,000	[59] 2,300	ĕ
DIAMINOTOLUENE, 2,4-	95-80-7	[0.021]	[0.0042] E 0.0034	[0.081] 0.068	[0.016] E 0.014	[2.1] 1.7	[0.42] E 0.34	[8.1]	[1.6]	E [21]	[4.2] <u>3.4</u> E		[16] <u>14</u> E	₹ Z
DIAZINON	333-41-5	333-41-5 [0.06] <u>0.1</u>	[0.082] E 0.14	[0.06] 0.1	[0.082] E	[6] 10	[8.2] <u>14</u> E	[6] 10	[8.2] 14	E [0.06]	[0.082] E 0.14	[0.06]	[0.082] E	30

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TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquifers	ifers					Non-Teo	Non-Hea Aquifore		
			≥ SQT	2500			TDS >	> 2500			NOII-OSE	e James a		Soil
HONATAGUS CHAN HONG	NOOV	Resid	dential	Non-Re	Non-Residential	Resid	Residential	Non-Re	Non-Residential	Resi	Residential	Non-Residentia	idential	Buffer
REGULATED SUBSTANCE	NACAS	100 X GW SC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
DIBENZO[A,H]ANTHRACENE	53-70-3	[0.009]	[41] 13 E		160 E	90.0	270 E	90:0	270E	90.0	270 E		270 E	5
DIBENZOFURAN	132-64-9	3.7	95 E	10	260 E	370	9,500 E	450	12,000 E	420	12,000 E	450	12,000 E	15
DIBROMO-3- CHI OROPROPANE: 1.2-	96-12-8	0.02	0.0092 E	0.02	0.0092 E	7	0.92 E	2	0.92 E	2	0.92 E	2	0.92 E	
DIBROMOBENZENE 1.4-	106-37-6	37	150 E	100	410 E	2,000	8,200 E	2,000	8,200 E	37	150 E	•	410 E	
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.005	0.0012 E	0.005	0.0012 E	0.5	0.12 E		0.12 E					
DIBROMOMETHANE	74-95-3	[9.7] 37	[3.7] <u>14</u> E	100	[7.7] <u>39</u> E	[970] 3,700			[770] E 3,900		[370] E 1,400		[770] E 3,900	Y Y
DIBLITY! PHTHA! ATF N.	84-74-2	370	1.500 E	1 000	4.100 E	10.000	10,000 C	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	20
DICAMBA	1918-00-9	400	45 E		45 E	40,000	4,500 E	40,000	4,500 E	400	45 E	400	45 E	
DICHI OBOACETIC ACID	76.43.6	۳	7 PZ		0 79 E	009	79 E	009	79 E	9	0.79 E	9	0.79 E	
DICHLORO-2-BUTENE, 1,4-	764-41-0	[0.0016] 0.0012	[0.0009] 0.00067	10.00	<u> </u>	[0.16] 0.12	O	으	[0.39] 0.34	[0.001 6]	[0.0009] E	[0.0069] 0.006	[0.0039 E	¥ Z
DICHLORO-2-BUTENE, TRANS-	110-57-6	0.0012	0.00078 E	0.00	0.0039 E	0.12	0.078 E	0.6	0.39 E	1	0.00078 E	0.00	0.0039 E	¥
DICHI OROBENZENE 12-	95-50-1	09	59 E		59 E	000'9	5,900 E	000'9	5,900 E	000'9	5,900 E	6,000	5,900 E	A
DICHI OROBENZENE 13-	541-73-1	9	61 E	9	61 E			9,000	6,100 E	9,000	6,100 E	6,000	6,100 E	A
DICHLOROBENZENE, P-	106-46-7	7.5	10 E	7.5	10 E	750	-	150	1,000 E		1,000 E		1,000 E	30
DICHLOROBENZIDINE, 3.3'-	91-94-1	0.15	8.3 E	0.58	32 E	15	830 E	28	3,200 E		8,300 E		17,000 E	10
DICHLORODIFLUOROMETHAN E (FREON 12)	75-71-8		100 E	100	100 E	1	10,000 C	10,000	۱ ۲	ę		=	8	₹
DICHLOROETHANE, 1,1-	75-34-3	[2.7] 3.1	[0.65] E 0.75	E [11] 16	[2.7] <u>3.9</u> E	[270] 310	<u> </u>	1,600	[270] 390	E 27	[6.5] <u>7.5</u> E	[110]	[27] <u>39</u> E	A A
DICHI OROFTHANE 12-	107-06-2	0.5		0.5	0.1 E	20	10 E	20	10 E	5	1 E		1 E	
DICHLOROETHYLENE, 1,1-	75-35-4		0.19	5.0	0.19 E	02			19 E		1.9 E		1.9 E	
DICHLOROETHYLENE, CIS-1,2-	156-59-2	7	1.6 E	E 7	1.6 E	200							16 E	
DICHLOROETHYLENE, TRANS-12-	156-60-5	10	2.3	E 10	2.3 E	1,000	230 E	1,000	230 E	_				¥ Z
DICHLOROMETHANE	75-09-2	0.5	0.076	E 0.5	0.076 E	20	7.6 E	20	7.6 E	20 20	7.6 E	20	7.6 E	A A
1	000													

¹ For other options see Section 250.308
All concentrations in mg/kg
E - Number calculated by the soil to groundwater equation in Section 250.308
C - Cap
NA - The soil buffer distance option is not available for this substance

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Ilsed Aquifers	ifers								
			TDC < 2500	2500			TDS >	2500			Non-Use	Non-Use Aquirers		Soil
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2000	latter atten	Pi coo) l	Non Do	Non Decidential	Paci	Pocidential	Non-Residentia	idential	Buffer
DECLII ATEN SIIRSTANCE	CASRN	Kesid	ential	Non-Ke	Non-Residential	Residential	ential	NOII-LE	SIGEILUAI	200	delluai	201-1101		Dietanco
		100 X GW	Generic Value	100 X GW MSC	Generic Value	GW GW	Generic Value	GW GW MSC	Generic Value	100 X MSC MSC	Generic Value	100 X GW MSC	Generic Value	(feet)
DICHI OBOBHENOI 24-	120-83-2		1	2	1 E	200	100E	200	100E	2,000	1,000 E	2,000	1,000 E	ΑN
DICHLOROPHENOXYACETIC	94-75-7	7	1.8 E	7	1.8 E	200	180 E	700	180 E	[700]	[180] 1 800	[700]	[180] 1 800	Ϋ́
ACID, 2,4- (2,4-D)	1		1,7,0	C	7	9	44	2	11		1 1		111	A N
DICHLOROPROPANE, 1,2-	78-87		0.11 E	0.5	0.11 0.46 1	2	12 0	1		1	12 E	26	46 F	₹ Z
DICHLOROPROPENE, 1,3- DICHLOROPROPIONIC ACID,	542-75-6 75-99-0	0.00	0.12E 5.3E	20	5.3 E	2,0		2	530 E	2,0	530 E	2,	530 E	₹
2,2- (DALAPON)								00.001	10.01		1040		7 [630 0]	Š
DICHLORVOS	62-73-7	[0.052] 0.23	[0.012] E 0.054	[0.22] 0.9	[0.052] E 0.21	[5.2] 23	[1.2] E	<u>06</u> [zz]	7.6]) (0.2	0.21	<u> </u>
DICYCLOPENTADIENE	77-73-6	[0.055] 1.5	[0.12] E	[0.12] 6.2	[0.26] <u>13</u> E	[5.5] 150	[12] E 320	[12] 620	[26] 1,300	[0.055 12	[0.12] <u>3</u> E	[0.12	[0.26] 13	30
DIELOBIN	60-57-1	0.0041	0.11E	0.016	0.44 E	0.41	11 E	1.6	44 E	4.1	110E		440 E	15
DIETHANDI AMINE	111-42-2	₹Z	ď	L	AN	AN	¥	AN	AN	NA NA	Ϋ́	≨	¥	¥
DIETHYL PHTHALATE	84-66-2	[500]	[160] E 910	[500] 8,200	[160] E 2,600	10,000	10,000 C	10,000	10,0	10,000	10,000 C	10,0	10,000 C	
DIFITIBENZURON	35367-38-5	20	52 E		52 E	20	52 E		52 E				52 E	١
DIISOPROPYL METHYI PHOSPHONATE	1445-75-6	읭	8.2 E	9	8.2 E	000'9	820 E	0000	820 <u>E</u>	9	8.2 E		8.2 E	İ
DIMETHOATE	60-51-5	0.73	0.28 E	2	0.77 E	73	28 E		77 E				770 E	
DIMETHOXYBENZIDINE, 3,3-	119-90-4		16 E		64 E		1,600 E	-		4		9	20,000 E	20
DIMETHRIN	70-38-2	3.6	240 E	3.6	240 E		240 E	3.6	240 E				240 E	
DIMETHYLAMINOAZOBENZENE P-	60-11-7	0.014	0.037 E	0.057	0.15 E	4.1	3.7 E		15				150E	l
DIMETHYLANILINE, N,N-	121-69-7	7.3	4.1 E		11 E		410E	7	`		410	\perp	1,100E	
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.0072] 0.006	[0.4] E 0.33	[0.028]	[1.5] 1.3 E	[0.72] 0.6	[40] <u>33</u> E			[7.2] <u>6</u>	₹ 8	[28]		
DIMETHYL METHYI PHOSPHONATE	756-79-6		1.2 E	위	1.2 E	1,000	120 E	1,000	120 E	위	<u>1</u>		<u>←</u> 	
DIMETHY! PHENOL 2.4-	105-67-9	73	32 E	200	87 E	7,300	3,200 E	10,000	8,700	E 10,000	10,000 C	10,	10,000 C	
DINITROBENZENE 13-	0-9-66	0.1	0.049 E	0.1	0.049 E	10	4.9 E	19	4.9	100	6		49 E	
DINITROPHENOL, 2,4-	51-28-5	[1.9] 7.3	[0.21] E 0.83	[4.1] 20	[0.46] E	[190] 730	[21] <u>83</u> E	2.0	[46] 230	E [19]	[2.1]	8	2]	
DINITROTOLUENE, 2,4-	121-14-2	0.21	0.05 E	0.84	0.2 E	21	2 E	84	20 E	210	20 E	840	200 E	¥

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquifers	ifers					2011	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
			TDS ≤ 2500	2500			TDS > 2500	2500			NOII-OSE	NOII-OSE Aquileis		Soil
BECIII ATED SIIBSTANCE	NGOAC	Resid	dential	Non-Re	Non-Residential	Resid	Residential	Non-Residentia	sidential	Resi	Residential	Non-Residentia	idential	Buffer
AFGOLATED SOBSTANCE	Neco	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
DINITROTOLUENE, 2,6- (2,6-	606-20-2	3.7	1.1 E	10	3 E		110 E	1,000	300 E	3,700	1,100 E	10,000	3,000 E	AN
DINOSEB	88-85-7	0.7	0.29 E	0.7	0.29 E	02	29 E	20	29 E	700	290 E	200	290 E	¥
DIOXANE, 1,4-	123-91-1	[0.56] 0.64	[0.073] E 0.084	3.2	[0.31] E 0.42	[56] 64	[7.3] E 8.4	[240]	[31] <u>42</u> E	[5.6] 6.4	[0.73] E 0.84	[24] 32	[3.1] E 4.2	A
DIPHENAMID	957-51-7	20	12 E	20		2,000	1,200 E	2,000	1,200 E		12 E		12 E	NA
DIPHENYLAMINE	122-39-4	[20] 91	[12] <u>53</u> E	[20] 260	[12] <u>150</u> E	[2,000] 9,100	[1,200] E 5,300	[2,000] 26,000	[1,200] 15,000	[20] 30,000	[12] E 18,000	30,000	[12] E 18,000	NA
DIPHENYLHYDRAZINE, 1.2-	122-66-7	0.083	0.15 E	0.33	0.58 E	8.3	15 E	25	44 E	25	44 E	25	44 E	30
-1	85-00-7	2	0.24	2	0.24 E	200	24 E	200	24 E		0.24 E	2	0.24 E	
DISULFOTON	298-04-4	[0.03] 0.07	[0.078] E 0.18	[0.03] 0.07	[0.078] E 0.18	Z [£]	[7.8] 18 E	Z [E]	[7.8] <u>18</u> E	등의	[78] <u>180</u> E	[30] 70	[78] E 180	20
DITHIANE. 1.4-	505-29-3	8	1.3 E	8	1.3 E	800	130 E	800	130 <u>E</u>		1.3 E		1.3 E	
DIURON	330-54-1	[1] 17.3	[0.86] E 6.3	[1]	[0.86] <u>17</u> E	[100] 730	[86] E 630	[100] 2,000	[86] 1,700	[<u>] 7.3</u>	[0.86] E 6.3	[1] 20	[0.86] E	Ϋ́
ENDOSUI FAN	115-29-7	[5.8] 22	[30]	[12] 48	[61] 250 E		250 E	48	250 E		250 E		250 E	
ENDOSULFAN I (ALPHA)	9-86-656			20	260 E		260 E	20	260 E		110E		260 E	
ENDOSULFAN II (BETA)	33213-65-9			45	260 E		260 E	45	260 E	22	130E		260 E	
ENDOSULFAN SULFATE	1031-07-8			12	70 E		70 E		70 E		70 E		70 E	
ENDOTHALL	145-73-3		4.1 E	10	4.1 E	1,000	410 E	1,0	410E		4.1E		4.1 E	
ENDRIN	72-20-8				5.5 E		250 E		250 E		5.5 E	ľ	5.5 E	
EPICHLOROHYDRIN	106-89-8	[0.28] 0.21	[0.056] E 0.042	[0.58] 0.88	[0.12] E 0.17	[28] 21	[5.6] E	[58] 88	[12] <u>17</u> E	2	[5.6] <u>4.2</u> E	[28]	[12] <u>17</u> E	
ETHEPHON	16672-87-0		2.1 E	51	5.9 E	1,800	210 E	5,100	290 E		2.1 E		5.9 E	
ETHION	563-12-2	1.8	39 E		110 E		1,900 E		1,900 E		39 E		110 E	
ETHOXYETHANOL, 2- (EGEE)	110-80-5	[55]	[7.8] <u>5.9</u> E	[120] 180	[17] <u>25</u> E	[5,500] 4,200	[780] 590	10,000	[1,700] 2,500	[5,500] 4,200	[780] E 590	10,000	[1,700] E <u>2,500</u>	A V
ETHYL ACETATE	141-78-6	[870]	[220] E 850	[1,800] 9,200	[470] E 2,400	1	10,000 C	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	
ETHYL ACRYLATE	140-88-5	[0.31] 1.4		5	[0.5] <u>2.1</u> E	[31]	[12] <u>54</u> E	[130] 540	[50] 210		[12] <u>54</u> E		[50] E 210	
ETHYL BENZENE	100-41-4	70	46 E		46 E	7,000	4,600 E	7,000	4,600E	2,000	4,600E	2,000	4,600 E	¥

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

Color Colo						Used Aquifers	uifers					0011	Aginga		
SUBSTANCE CASRN Generic GNX Generic GNA Value				ZSQT	2500			< SQ1	. 2500			PSO-IION	e la linhe		Soil
CARBAMATE, CAR	DECIII ATED SIIBSTANCE	NGOAC	Resid	ential	Non-Re	sidential	Resic	lential	Non-Re	sidential	Resi	dential	Non-Res	idential	Buffer
CAMEMANTE, CAMEMANT, CAMEMANTE, CAMEMANT, CA			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
September Sept	ETHYL DIPROPYLTHIOCARBAMATE, S- (FPTC)	759-94-4	91	65 E		180 E		6,500 E					260	180 E	N A
37-63-2 1871 339 141 556 1180 1301 150 18,700 11,400 10,000	ETHYL ETHER	60-29-7	[190] 730	[53] <u>210</u> E				[5,300] [10,000 E		10,000 C			[410] <u>2,000</u>	[120] E <u>560</u>	¥ Z
107-21-1	ETHYL METHACRYLATE	97-63-2	[87] 330	[14] <u>55</u> E		1	L	[1,400] 5,500					[180] <u>920</u>		Υ V
96-45-7 [0.31] 0.229 [0.034] E [0.034] E [30] 230 [3.4] E [30] 3.4] E [30] 3.	ETHYI FNF GI YCOI	107-21-1	1.400	170 E		170 E		10,000 C	1	10,000 C	10,000	10,000 C		10,000 C	¥
2104-64-5 0.037 0.12 0.01 0		96-45-7	[0.3] 0.29	[0.034] E			İ	[3.4]			<u> </u>	[34] <u>32</u> E		[34] <u>92</u> E	A A
Section Sect	ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5		0.12 E		0.31 E		12 E		31 E		0.12 E		0.31 E	20
Strict S		22224-92-6	[0.2] 0.07	[0.17] E 0.06				[17		[17] <u>6</u> E	_	[0.17] E	[0.2]		₹
Section Sect	(PYDRIN)	51630-58-1	8.5	94 E						94 E		94 E		94 E	15
Section Sect		2164-17-2		2.5 E		2.5 E		250 E	65	250 E		2.5 E		2.5 E	¥
Section Sect	FLUORANTHENE	206-44-0		3,200 E						3,200 E		3,200 E		3,200 E	9
75-69-4 200 87 E 200 87 E 10,000 8,700 E 10,000 1,200 E 1,000 1,200 1,200 E 1,000 1,200 E 1,000 1,	FLUORENE	86-73-7		3,000 E		3,800 E		- 1			9	3,800 E		3,800 E	12
944-22-9 1 2.9	FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4		87 E		3 Z8		80			10,000	8,700 E		8,700 E	₹ Z
50-00-0 100 12 14,100] 1460] 12 10,000 1,200	FONOFOS	944-25-9		2.9 E	-	2.9 E				290 E		2.9 E		2.9 E	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	FORMALDEHYDE	20-00-0		12 E		12		1,200		1,200 E		1,200 E		1,200 E	
39148-24-8 11,000 9,700 31,000 27,000 190,000 190,000 190,000 190,000 11,000 9,700 10,87] 110-00-9 10,87] 121 12	FORMIC ACID	64-18-6		[210] E 0.071				[10,000] <u>7.1</u>	[10]	[10,000 [] 29 C] 1 29 C		[2,100] E 0.71	10,00	[4,600] E	₹
110-00-9 [0.97] 3.7 [0.42] E [2] 10 [0.87] E [97] [42] E [200] [87] E [97] [42] E [200] [87] E [97] [42] E [200] [42] E [20] FOSETYI -AI	39148-24-8	11,000	9.700 E	1				190,000			9,700 E		27,000 E	ΑA	
	FURAN	110-00-9	[0.97] <u>3.7</u>	[0.42] E					1			[42] 160 E		187] 1440 1	¥

¹ For other options see Section 250.308
All concentrations in mg/kg
E - Number calculated by the soil to groundwater equation in Section 250.308
C - Cap
NA - The soil buffer distance option is not available for this substance

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TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					:									
					Used Aquiters	liters					Non-Use	Non-Use Aquifers		;
			TDS ≤	2500			TDS > 2500	2500				-		Soil
DECIII ATED SUBSTANCE	CACDN	Resid	ential	Non-Re	Non-Residential	Resid	Residential	Non-Re	Non-Residential		Residential	Non-Residentia	idential	Buffer
REGULATED SUBSTANCE		100 X GW	Generic Value	100 X GW	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
FURFURAL	98-01-1	1	1.4 E	_	[3.7] <u>3.9</u> E		140 E	[2,900] 3,100	[370] E 390		1.4 E	[29] 31	[3.7] E	ΑN
GLYPHOSATE	1071-83-6	02	620 E	20	620 E	2,000	62,000 E	2,000	62,000 E	202	620 E	20	620 E	
HEPTACHI OR	76-44-8	0.04	0.68 E	0	0.68 E		98 E	4	89 E		310 E		310 E	
HEPTACHI OR FPOXIDE	1024-57-3	0.02	1.1E	0.02	1.1 E	[2.0]	110E	2	110 E	50	1,100 E		1,100 E	
HEXACHI OROBENZENE	118-74-1	0.1		0.1	0.96 E	9.0	5.8 E	9.0	5.8 E	9.0	5.8 E		5.8 E	
HEXACHLOROBUTADIENE	87-68-3	[0.1] 0.9	[1.2] 10 E	[0.1]	[1.2] <u>39</u> E	[10] 85	[120] E 1,000	[10] 290	[120] E 3,400	[100]	[1,200] 3,400	[100] 290	[1,200] 3,400	15
HEXACHLOROCYCLOPENTADI ENE	4-74-47	5	91 E		91 E	180	3,300 E	180	3,300 E	180	3,300 E	180	3,300 E	15
HEXACHI OROFTHANE	67-72-1	0.1	0.56 E	0.1	0.56 E	5	26 E	10	26 E	10	26 E		26 E	
HEXANE	110-54-3	[55] 150	[500] E	[120] 610	[1,100] E 5,600	920	8,700 E	950	8,700 E	[55]	[500] 1,400	[120] 610	[1,100] E 5,600	15
HEXAZINONE	51235-04-2		8.5 E			4,000	850 E	4,000	850 E		8.5 E		8.5 E	¥Ι
HEXYTHIAZOX (SAVEY)	78587-05-0		820 E	20			820 E	20	820 E		820 E	50	820 E	
	2691-41-0	40	4.8 E			47	90 E	200	90 90 90	4	4.8 E		438 E	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	00.00	[0.00009 E 8]	0.00	[0.00042 E	0.088]	[0.0098 E] 0.011	[0.38] 0.51	[0.042] E	[0.008] 8] 0.01	[0.00098 E] 0.0011	[0.038] <u>0.051</u>	[0.0042 E]	N A
HYDROQUINONE	123-31-9	[150] 1.2	[20] <u>0.16</u> E		[55] <u>0.62</u> E	15,000	[2,000] E	[41,000] 460	[5,500] 62	E [150,0 00] 1,200	[20,000] <u>160</u>	[190,000] <u>4,600</u>	[55,000 E] <u>620</u>	N A
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.09]	[7,000] E 2,200	0.36	28,000 E		[6.2] 190,000 C		6.2 190,000 (C 6.2	190,000		6.2 190,000 C	
IPRODIONE	36734-19-7		430 E	410	1,200 E	1,300		1,300	3,700 E	E 150			1,200 E	
ISOBUTYL ALCOHOL	78-83-1	[290] 1,100	[76] <u>290</u> E	[610] 3,100	[160] E 810	10,000	[7,600] [10,000 E 1 C	10,000	10,000	10,000 C 10,000	7,600] [10,000 E 1 1 	10,000	10,000 С	<u> </u>
SOPHORONE	78-59-1	10	1.9 E	9	1.9 E	1,000	190 E	1,000	190 E	= 10,000	1,900 E	10,0	1,900 E	
ISOPROPYL METHYLPHOSPHONATE	1832-54-8		8.1 E	2	8.1 E	2,000	810 E	2,000	810 <u>E</u>	2			8.1 E	
KEPONE	143-50-0	0.0041	0.56 E	0.016	2.2 E	0.41	26 E	1.6	220 E	4.1	260 E	16	2,200 E	19

¹ For other options see Section 250.308
All concentrations in mg/kg
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B. Soil to Groundwater Numeric Values¹

					Used Aquirers	IITERS					Non-Use	Non-Use Aguifers	-	:
			TDS ≤ 2500	2500			TDS > 2500	2500						Soil
	1400	Resid	ential	Non-Re	Non-Residential	Residential	ential	Non-Residentia	idential	Resi	Residential	Non-Residential	sidential	Buffer
REGULALED SUBSTANCE	CASKN		Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
	207	300	31/6	MOV.	34 E		3 400 F	1 000	3 400 E		T3.4001 F	11.0001	[3,400]	70
MALATHION	C-G/-LZL	2	₹	2		3	5	-	5		10,000 E		10,000 E	
										10,000	-01		_OI	
MAI EIC HYDRAZIDE	123-33-1	400	47 E	400	47 E	40,000	4,700 E	40,000	4,700 E	4	47 E	4	47 E	¥
MANER	12427-38-2	18	2 E	51	5.8 E	1,800	200 E	2,3	260 E		2E			¥
MERPHOS OXIDE	78-48-8	0.11	15 E	0.31	41 E	Ŧ	1,500 E	31	4,100 E		15 E		41 E	10
METHACRYLONITRILE	126-98-7	[0.19]	[0.031] E	[0.41]	[0.067] E 0.1	[19] 15	[3.1] E 2.5	[41] <u>62</u>	[6.7] <u>10</u> E	[0.19] 0.15	[0.031] E 0.025		[0.067] E 0.1	₹
METHAMIDOPHOS	10265-92-6	0.18	0.022 E		0.063 E	18	2.2 E	51	6.3 E	0.18			0.063 E	¥
METHANOL	67-56-1	[490] 840	E [83]	[1,000] 3,500	[120] E 410	10,000	[5,800] 9,900	10,000	10,000 C	10,000	[5,800] E 9,900	10,000	10,000 C	₹ Z
METHOMS	16752-77-5	20	3.2 E			2,000	320E	2,000	320 E	20	3.2 E		3.2 E	AA
METHOXYCHIOR	72-43-5		630 E		630 E	4.5	710 E	4.5	710 E		710 E		710 E	
METHOXYETHANOL, 2-	109-86-4	[3.7] 4.2	[0.41] E	[10] 18	[1.1] <u>2</u> E	[370]	[41] <u>47</u> E	[1,000] 1,800	[110] 200	[3.7]	[0.41] E 0.47	[10] 18	[1.1] <u>2</u> E	A V
METICAL	79-20-9	3 700	9089 F	10.000	1.900 E	19	10,000 C	Ľ	10,000 C	3,700	690 E	10,000	1,900 E	A
METHYL ACEINIE	96-33-3		27 E	1			2,700 E	10,000	7,700 E	10,	2,700 E			¥
METHYL CHLORIDE	74-87-3	[0.3]	0.0	[0.3] 3	[0.038] E 0.38	<u>6</u>	[3.8] <u>38</u> E	[30]	[3.8] <u>38</u> E	300		드	[3.8] 38	Š Š
METHYL ETHYL KETONE	78-93-3	[280] 400	[54] <u>76</u> E	[580]	[110] <u>76</u> E	10,000	[5,400] E 7,600	10,000	[10,000] <u>7,600</u>	C 10,000	[5,400] E 7,600			
METHYL ISOBUTYL KETONE	108-10-1	[19] 290	[2.9] 45 E	[41]	[6.3] 130 E	[1,900]	[290] E	[4,100]	[630]	[[1,900	[290] E	10,000	[630] [10.000 E	¥ Z
				0 <u>8</u> 		000,01	000	200		1 10,000 C				
METHY! ISOCVANATE	624.83.9	0 24	0 029 E	0.88	0.12 E		2.9 E	88	12	E 0.21	0.029 E	0.88	0	욁
METHYL N-BUTYL KETONE (2-	591-78-6		0.27 E			위	27 E	440	110	E 1.1	0.27 E	4.4	1.1 E	ĕ l
METHYL METHACRYLATE	80-62-6	80-62-6 [190] <u>150</u>	[26] <u>20</u> E	[410] 620	[56] <u>84</u> E	10,000	[2,600] E 2,000	10,000	[5,600] 8,400	E 10,000	[2,600] E	E 10,000		ĕ
METHYL METHANESULFONATE	66-27-3	0.67	0.083 E		0.32 E	. 67	8.3 E	260	32 [E 0.67	0.083	E 2.6	0.32 E	₹

¹ For other options see Section 250.308 All concentrations in mg/kg E - Number calculated by the soil to groundwater equation in Section 250.308 C - Cap NA - The soil buffer distance option is not available for this substance

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquifers	uifers					2014	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
			TDS ≤ 2500	2500			X SQ1	TDS > 2500			NOII-OSE	Noil-Use Aquilers		Soil
DECILIATED SUBSTANCE	NGSAC	Resid	dential	Non-Re	Non-Residential	Resid	Residential	Non-Re	Non-Residential	Resi	Residential	Non-Re	Non-Residential	Buffer
		100 X GW	Generic	100 X GW	Generic	100 X GW	Generic	100 X GW	Generic	`	Generic	100 X GW	Generic	Distance (feet)
		MSC	אמומא	MSC	Aaiac	MSC		MSC		MSC		MSC		
METHYL PARATHION	298-00-0	[0.2] 0.1	[0.42] E 0.21	[0.2] 0.1	[0.42] E 0.21	[20] 10	[42] <u>21</u> E	[20] 10	[42] <u>21</u> E	[20]	[42] <u>210</u> E	[20] <u>100</u>	[42] E 210	30
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	[22] 8.4	[120] <u>47</u> E	[61] <u>35</u>	[340] E 200	[2,200] 840	[12,000 E] 4,700	3,500	[34,000 [] E 10,000]	[22] 8.4	[120] <u>47</u> E	[61] <u>35</u>	[340] E	15
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	2	0.28 E	2	0.28 E	200	28 E	200	28 E	20	2.8 E	20	2.8 E	ΑN
METHYLCHLOROPHENOXYAC ETIC ACID (MCPA)	94-74-6	က၊	1.2 E	mI	1.2 €	300	120 E	300	120 E	3,000	1,200 <u>E</u>	3,000	1,200 <u>E</u>	N N
METHYLENE BIS(2- CHI OROANII INF), 4.4'-	101-14-4	[0.51]	[3.9] <u>1.7</u> E	[2] 2.6	[15] <u>20</u> E	[51] 22	[390] 170	[200]	[1,500] E 2,000	[0.51]	[3.9] <u>1.7</u> E	[2] <u>2.6</u>	[15] <u>20</u> E	15
METHYLNAPHTHALENE, 2-	91-57-6	4	[2,900] E	[200]	[8,000] E	[2,500]	10,000 [2,500	[10,000 [[73]	[2,900] 600	[200]41	[8,000] E 1.600	15
			3	il .			60,000 1		100,000 1					
METHYLSTYRENE, ALPHA	6-83-86	[68] <u>260</u>	[120] E 460	[140]	[250] E 1.300	10,000	[12,000 [] E	[14,000	[25,000 [] E	[68]	[120] 460	[140] 720	[250] E 1,300	30
							10,000	10,000	10,000					
METOLACHLOR	51218-45-2		40 E	2	40 E	2,000	4,000 E	7,000	4,000 E	02	40 E	07	40 E	Ϋ́
METRIBUZIN	21087-64-9		2.4 E	7	2.4 E		240 E		240 E	7	2.4 E		2.4 E	¥
MONOCHLOROACETIC ACID	79-11-8		0		0.78 E				78 E		0.78 E		0.78 E	≨I
NAPHTHALENE	91-20-3					-	2,500 E	1,000	2,500 E	3,0	7,500E	က်	7,500 E	္က ႏ
+	134-32-7	1				3.7	30 E	4 4	110E	37	300E	140	1,100 E	2 2
NAPHTHYLAMINE, 2-	91-59-8	0.037	0.012 E	4 000	0.046 E	7	16.0	7.0	16 000 F	(,	12 E		2.300 E	300
¥	99-09-2	0.0	<u>ē</u>		2		-		[9.1] 48 E	[0.21]	[0.033] E	<u>e</u>	[0.091] E	₹
			0.17	3.1	0.48			310		- 1	0.17		0.48	
NITROANILINE, O-	88-74-4	[0.21] 11	[0.038] <u>2</u> E	[0.58]	[0.1] <u>5.5</u> E	1,100	[3.8] 200	ကျ	[10] 550	[0.21]	으	[0.58] 31	[0.1] E	¥ Z
NITROANILINE, P-	100-01-6	100-01-6 [0.21] 3.3	[0.031] E 0.49	[0.58]	[0.086] 1.9	[21]	[3.1] <u>49</u> E	[58] 1,300	[8.6] E 190	3.3	[0.031] E 0.49	[0.58] 13	[0.086] 1.9	₹

¹ For other options see Section 250.308
All concentrations in mg/kg
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APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquifers	lifers					1 2 1	A casing		
			TDS ≤ 2500	2500			TDS > 2500	2500			Non-Use	Non-Use Aquilers		Soil
DECIL ATED SUBSTANCE	NOOV	Resid	dential	Non-Re	Non-Residential	Resid	Residential	Non-Residentia	idential	Resi	Residential	Non-Residentia	sidential	Buffer
REGULATED SUBSTANCE	CASKI	100 X GW	Generic Value	100 X GW	Generic Value		Generic Value		Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	Distance (feet)
		MSC		MSC		MSC		Jage Man		_		30EM	1 :000	
NITROBENZENE	86-95-3	<u>2.7</u> [8.1]	[0.79] E	[5.1] 20	[2.2] 8.7 E	[180]	[79] E 320	[510] 2.000	[220] 870	17,300	[790] 3,200	[5,100] 10,000	[2,200] E 8,700	¥ Ž
NITROGLIANIDINE	556-88-7		7.8 E		7.8 E	7	780 E	2,000	780 E	2	7.8 E		7.8 E	
NITROPHENO! 2-	88-75-5	29	5.9 E	82	17 E		290 E	8,200	1,700 E	1,700 E 29,000	5,900 E	82,000	17,000 E	AN
NITROPHENOL. 4-	100-02-7		4.1E		4.1 E	009	410 E		410 E		4,100 E		4,100 E	¥
NITROPROPANE. 2-	79-46-9		[0.00026 E [0.0068	[0.0068	[0.0011] E	_	[0.026] E	[0.68]	[0.11]E		[0.0026] E		[0.011] E	¥
		0.0018	0,000,0	0 000	0.0015	0.18	0.029	0.93	0.15	1 0.018	0.0029	0.093	0.015	
NITEOSODIETHY! AMINE N.	55-18-5	10 00011	TO 00001		T0.00007E	10.011	TO.0018 E	[0.043]	[0.0076 E	10.001	[0.00018 E	-	[0.0007 E	¥
NIT NO SOCIETIES IN THE STATE OF THE STATE O	<u>-</u>	0 000045	81		61 0.0001	0.0045	_	0.058	10.01	_		0.0058	1	
			0.0000	0.00058			0.0008			0.0004	0.00008		0.001	
			2			- 1.			1			\perp		VIA
NITROSODIMETHYLAMINE, N-	62-75-9	[0.00031]	[0.00004 E	[0.0013	[0.00017 E	[0.031] 0.014	[0.0041 E	[0.13] 0.18	[0.017] E 0.024	1.0003	[0.00041 =]	0.013	10.001	Į Ž
			0.00001	0.0018	0.00024		0.0019			0.0014	0.00019		0.0024	
NITROSO-DI-N-BUTYLAMINE,	924-16-3	Ľ	[0.0033] E	_	_	[0.27]	[0.33] E	[1.1]	[4.4] E.4]	[0.27]	[0.33] <u>15</u> E	[1.1] 48	[1.4] <u>59</u> E	Š Š
2		0.012	0.015	0.048			1.5							
NITROSODI-N-PROPYLAMINE,	621-64-7	0.0094	0.0013 E	0.037	0.0051 E	0.94	0.13E	3.7	0.51E	9.4	1.3 E		5.1 E	
NITROSODIPHENYLAMINE N-	9-02-98	13	20 E	53	83 E	1,300	2,000 E	3,500	5,500 E	_			5,500 E	
NITROSO-N-ETHYLUREA, N-	759-73-9	759-73-9 [0.00047]	[0.00005 E	[0.0019	_	<u>o</u>	[0.0054 E	[0.19]	[0.022] E	으	[0.0054] E	흐	[0.022] E	≨
		0 0008	0.00009	0.0096	1 0.0011	0.0	0.0092	96.0	5	9	0.032	9	3	
OCTYL PHTHALATE, DI-N-	117-84-0	[73] 150	10,000 C	[200]	10,000 C	330	10,000 C	300	10,000 C	330	10,000 C	300	10,000 C	5
OVAMVI AMPLES	23135-22-0	20	2 6 F		2.6 E	2.000	260E	2,000	260 E	20	2.6 E	20	2.6 E	AA
DABAOHAT	1910-42-5					300	12,000 E	300	12,000 E	33	120 E	3	120 E	<u>15</u>
PARATHION	56-38-2			61	360 E	2,000	10,000C	2,000	10,000 C				360 E	
PCB-1016 (AROCLOR)	12674-11-2	0.26		0.72	200 E		6,900 E	25	6,900 E	0.26	72 E		200 E	
PCB-1221 (AROCLOR)	11104-28-2	[0.13]	[0.63] E 0.16	[0.52] 0.13	[2.5] E 0.63	[13] 3.3	[63] <u>16</u> E	[52] <u>13</u>	[250] E 63	[0.13] 0.033	[0.63] E 0.16	[0.52] 0.13	[2.5] E 0.63	20
			l											

¹ For other options see Section 250.308

All concentrations in mg/kg
E - Number calculated by the soil to groundwater equation in Section 250.308
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B. Soil to Groundwater Numeric Values¹

					Usea Aquirers	ITERS					Non-Use	Non-Use Aquifers		;
			TDS ≤ 2500	2500			TDS > 2500	2500				-		Soil
PEGIII ATEN SIIBSTANCE	CASRN	Resid	dential	Non-Re	Non-Residential	Residential	ential	Non-Re	Non-Residential	Resi	Residential	Non-Residentia	sidential	Buffer
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
PCB-1232 (AROCLOR)	11141-16-5	[0.13] 0.033	[0.5] E 0.13	[0.52] 0.13	[2] <u>0.5</u> E	[13] 3.3	[50] <u>13</u> E	[52] <u>13</u>	[200] E		[0.5] E 0.13	[0.52] <u>0.13</u>	[2] <u>0.5</u> E	20
PCB-1242 (AROCLOR)	53469-21-9	[0.13] 0.033	[16] <u>4</u> E	[0.52] 0.13	[62] <u>16</u> E	[10] 3.3	[1,200] E <u>400</u>	10	1,200 E		[16] <u>4</u> E	[0.52] 0.13	[62] <u>16</u> E	9
PCB-1248 (AROCLOR)	12672-29-6	[0.037]	[18] 16 E	[0.14] 0.13	[67] <u>62</u> E	[4] 3.3	[1,800] E 1,600	5.4	2,600 E	[0.04] 0.033	[18] <u>16</u> E	[0.14] 0.13	[67] <u>62</u> E	10
PCB-1254 (AROCLOR)	11097-69-1	[0.037]	<u> 179 [57]</u>	[0.14]	[280] E 260	[4] 3.3	[7,500] E 6,700	2.7	10,000 C	[0.04] 0.033	[75] <u>67</u> E	[0.14] 0.13	[280] E 260	5
PCB-1260 (AROCLOR)	11096-82-5	0.033	[500] E	0.43	[1,900] <u>590</u>	[8] 3.3	[36,000 E] 15,000	ω	36,000 E	0.033	[500] E 150	[0.43] <u>0.13</u>	[1900] E <u>590</u>	5
PEBULATE	1114-71-2	180	300 E	510	860 E	9,200	10,000 C	9,200	10,000 C	_	300E	510	860 E	30
PENTACHLOROBENZENE	608-93-5	2.9	230 E		9099	74	5,900 E	74	5,900 E	74	5,900 E		5,900 E	10
PENTACHLOROETHANE	76-01-7	0.73	3.6 E	2.9	14 E	73	360 E	290	1,400 E	0.73	3.6 E	2.9	14 E	81
PENTACHLORONITROBENZEN E	82-68-8	0.25	2 E	1	20 E	25	500 E	4	870 E	44	870 E	44	870 E	
PENTACHLOROPHENOL	87-86-5	0.1	5 E	0.1	2 E	10	500 E		200 E		5,000 E		5,000 E	9
PHENACETIN	62-44-2		12 E		46 E	က်	1,200 E	12,	4,600 E	8	12,000 E	92	29,000 E	¥.
PHENANTHRENE	85-01-8	110	10,000 E	110	10,000 E	110	10,000 E	- 1	10,000 E		10,000 E		10,000 E	10
PHENOL	108-95-2	108-95-2 [400] <u>200</u>	[66] <u>33</u> E	[400] 200	[66] 33 E	[40,000	[6,600] E	[40,000] 20,000	[6,600] E	[40,00 20.000	[6,600] E	[40,000] 20,000	[6,600] E 3,300	⊈ Z
PHENYL MERCAPTAN	108-98-5	0.037	0.056 E	0.1	0.15 E	3.7	5.6 E	1	15 E		0.056 E	0.1	0.15 E	30
PHENYLENEDIAMINE. M-	108-45-2		3.1 E	61	8.6 E	2,200	310 E		860 E	22,000	3,100 E		8,600 E	¥
PHENYLPHENOL, 2-	90-43-7	[34] 35	[490] E	[130] 140	[1,900] E 2,000	[3,400] 3,500	[49,000 E		[13,000 190,000 E	[34,00 35,000 0	190,000 C		70,000 190,000 C	15
PHORATE	298-02-2	[0.19]	[0.41] E	[0.41] 2	[0.88] E	[19] 73	[41] E	[41] 200	[88]	E [0.19]	[0.41] E	[0.41] 2	[0.88] E	30
PHTHALIC ANHYDRIDE	85-44-9		2,300 E	20,000	6,200 E	190,00	190,00 C	C 190,000	190,000	C 190,0	190,000 C		190,000 190,000 C	₹
PICLORAM	1918-02-1	20	7.4 E	20	7.4 E	5,000	740 E	5,000	740 E	90	7.4 E	20	7.4 E	¥

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B. Soil to Groundwater Numeric Values¹

					Used Aquirers	IITERS					Non-Use	Non-Use Aguifers		;
			TDS ≤ 2500	2500			TDS > 2500	, 2500				-		Soil
HONA HOUSE	NOOVO	Resid	lential	Non-Re	Non-Residential	Residential	ential	Non-Re	Non-Residential	Res	Residential	Non-Residentia	idential	Buffer
REGULATED SUBSTANCE	NASKO	100 X	Generic	100 X	Generic		Generic	100 X	Generic	100 X	Generic	100 X	Generic	Distance (feet)
		MSC	Value	MSC	Value	MSC	Value	MSC	Value	MSC	Value	MSC	Value	
PROMETON	1610-18-0	9	9.8 E	9	9.8 E	1,000	980 E	1,000	980 E		9.8 E		9.8 E	Ϋ́
PRONAMIDE	23950-58-5	[5] 270	[3.1] 170 E	[5] 770	[3.1] <u>470</u> E	[500] 1,500	[310] E 920	[500] 1,500	[310] E 920	270	[3.1] <u>170</u> E	[5] 770	[3.1] E 470	Υ Y
PROPANIL	709-98-8	18	9.2 E	51	26 E	1,800	920 E		ı				26 E	¥
PROPANOL, 2- (ISOPROPYL	67-63-0	17	260 E	6.2	1,100 E	10,000	10,000 C	10,000	10,000 C	1,500	260 E	6,200	1,100 E	ĕ
PROPAZINE	139-40-2	1	0.5 E	1	0.5 E	100	20 E	100	<u>50</u> E	11	0.5 E	₹1	0.5 E	NA NA
PROPHAM	122-42-9	[73] 10	[17] <u>2.4</u> E	[200]	[48] <u>2.4</u> E	1,000]	[1,700] E 240	1 1,000	[4,800] E 240	[73]	[17] <u>2.4</u> E	[200] <u>10</u> [48]	[48] <u>2.4</u> E	N A
PROPYI BENZENE N-	103-65-1	150	290 E	410	780 E	5,200	9,900 E	5,200	9,900	E 150		410	780 E	30
PROPYI ENF OXIDE	75-56-9		0.049 E	1.1	0.19 E	28	4.9 E	110	19	0.28		Ì	0.19 E	¥
PYRENE	129-00-0		2,200 E	13	2,200 E	13	2,200 E		2,200 E					9
PYRIDINE	110-86-1	<u>7.8</u> [76.0]	[0.11] E 0.41	[2] 10	[0.22] E	[97] 370	[11] <u>41</u> E	1,000	[22] E 110	[9.7] 37	[1.1] <u>4.1</u> E	[20] 100	[2.2] <u>11</u> E	₹
QUINOLINE	91-22-5	[0.0055]	[0.018] E 0.074	[0.022] 0.087	[0.074] E 0.29	[0.55] 2.2	[1.8] E	[2.2] 8.7	[7.4] <u>29</u> [E [5.5]	[18] <u>74</u> E	[22]	[74] E 290	70
OHITAL OFOP (ASSURF)	76578-14-8		47 E	30	47 E		47 E	30	47 E		47 E	30	47 E	30
	121-82-4	0.2	0.057 E	0.2	0.057 E		5.7 E	20	5.7 E	<u>0.2</u>	0		0.057 E	≨
RESORCINOL	108-46-3	7.	850 E	20,000		2,300 E 190,000	85,000 E	190,000	190,000	C 7,300		8	2,300 E	¥
RONNEI	299-84-3		280 E			4,000	6,200 E	4,000	6,2	<u>=</u> 180			800 E	8
SIMAZINE	122-34-9		0.15 E	0.4	٥		15 E						0.15 E	ž
STRYCHNINE	57-24-9	1.1	0.89 E	3.1	2.5 E	110	89 E						2,500 E	₹
STYRENE	100-42-5		24 E			- 1	2,400 E			-	2,4	1,0	2,400 E	8
TEBUTHIURON	34014-18-1	90	83 E	50		2,000	8,300 E	ς.	ω	2	83	C	83 E	9
TERBACIL	5902-51-2	6	2.2 E	9	2.2 E	8	220 E				2.2		2.2 E	¥
TERBUFOS	13071-79-9		[0.12] E	[0.09]	[0.12] E 0.055	<u>4</u> [9]	[12] <u>5.5</u> E	<u>6</u>	[12] <u>5.5</u> E	[0.09]	[0.12] E 0.055	[0.09] 0.04	[0.12] E 0.055	30
TETRACHLOROBENZENE,	95-94-3	1.1	5.1 E	3.1	14 E	28	270 E	28	270	E 58	270 E	58	270 E	20
TETRACHLORODIBENZO-P-	1746-01-6	1746-01-6 0.000003	0.032 E	0.032 E 0.00000 3	0.032 E	0.0003	3.2 E	0.0003		3.2 E 0.0019	20 E	0.0019	20 E	5
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	2	18 E	7	18 E	700	1,800 E	200	1,800 E	E 700	1,800 E	700	1,800 E	30

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquifers	uifers					Non Leo	September 1 les Aquifors		
			TDS ≤ 2500	2500			< SQ1	TDS > 2500			NOII-ON	cialinha		Soil
BEGIII ATED SLIBSTANCE	NGOAC	Residential	ential	Non-R	Non-Residential	Resid	Residential	Non-Re	Non-Residential	Res	Residential	Non-Residentia	idential	Buffer
NEGOLA IED SOBS INCE		100 X GW	Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	Distance (feet)
TETRACHLOROETHANE,	79-34-5	0.03	0.0093 E		0.0093 E		0.93 E		0.93 E		0.93 E	e e	0.93 E	N A
1,1,2,2- TETRACHLOROETHYLENE	127-18-4	0.5	0.43 E	0.5	0.43 E	20	43 E	20	43 E	2	4.3 E	2	4.3 E	ž
(FCE) TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[29] 110	[450] E 1,700	310	[950] E 4,800	[2,900]		[6,100]			[45,000] [190,000 E	[6,100] 18,000	[95,000 E	15
							170,000		190,000 	18,000	<u>-0 </u>		190,000	
TETRAETHYLLEAD	78-00-2	0.00037	0.0046 E	0.001	0.012 E	0.037	0.46 E	0.1	1.2 E	0.37	4.6 E	-	12 E	15
TETRAETHYLDITHIOPYROPHO SPHATE	3689-24-5 [0.49] 1	[0.49] 1.8	[0.73] E	[1] 5.1	[1.5] <u>7.6</u> E	[49]	[73] E 270	[100] 510	[150] E 760	[0.49]	[0.73] E	[1] 5.1	[1.5] E 7.6	30
TETRAHYDROFURAN	109-99-9	2.5	0.55 E	13	2.8 E		55 E	1,300	280 E	2.5	0.55 E	13	2.8 E	ΑN
THIOFANOX	39196-18-4	1:	0.12 E	3.1	0.34 E	110	12 E	310	34 E	1.1	0.12 E	3.1	0.34 E	NA
THIRAM	137-26-8	18	47 E	51	130 E	1,800	4,700 E	3,000	7,800 E	18	47 E		130 E	20
TOLUENE	108-88-3	l	44 E	100	44 E	10,000	4,400 E	10,000	4,400 E	10,000	4,400 E	10,000	4,400 E	¥
TOLUIDINE, M-	108-44-1		[0.13] E 0.17	[1.1] 1.4	[0.51] E 0.65	[28] 37	[13] <u>17</u> E	[110]	[51] <u>65</u> E	[0.28] 0.37	[0.13] E 0.17	[1.1] 1.4	[0.51] E 0.65	NA
TOLUIDINE, 0-	95-53-4	[0.28]	[0.32] E 0.42	[4.1]	[1.2] <u>1.6</u> E	[28] 37	[32] <u>42</u> E	[110]	[120] 160	[280] 370	[320] 420	[1,100] 1,400	[1,200] E 1,600	NA
TOLUIDINE. P-	106-49-0	0.35		1.4	1.3 E	35	32 E	140	130 E	0.35	0.32 E	1.4	1.3 E	A
TOXAPHENE	8001-35-2	0.3	1.2 E	0.3	1.2 E				120 E	.03	1.2 E		1.2 E	20
TRIALLATE	2303-17-5	47	240 E	130	999 E				2,000 E				909E	15
TRIBROMOMETHANE (BROMOFORM)	75-25-2	[10] 8	[4.4] <u>3.5</u> E	E [10] E	[4.4] <u>3.5</u> E	[1,000] 800	[440] E	7,000 800 1000	[440] E	7. 2,00 8,00	[440] 350	[1,000] [800]	[440] E 350	NA
TRICHLORO-1,2,2-	76-13-1	[8,300]	[26,000]	[17,000	[53,000] [[17,000	[53,000 [[17,000	[53,000	[[17,00	[53,000] [10,000 E	[17,000]	[53,000 [1 E	70
ואורבססאספיוחאואב, ו, ו, ב-				10.001 C		10,000	10,000	10,000	10,000	9	-01		10,000 1 C	
TRICHLOROBENZENE, 1.2.4-	120-82-1	7	27 E	7	27 E	700	2,700 E	700	2,700 E	4,400	10,000 C	4,400	10,000 C	20
TRICHLOROBENZENE, 1,3,5-	108-70-3	4	31 E	= 4	31 E		æ		က်	١	31 E		31E	15
TRICHLOROETHANE, 1,1,1-	71-55-6	20				2,0	720 E	2,0		8	72 E	70	72 E	≨ :
TRICHLOROETHANE, 1,1,2-	79-00-5		0.15 E	0.5	0.15E	20		20	15E	5	1.5E	2	1.5E	¥

APPENDIX A
TABLE 3 - MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

					Used Aquifers	ifers					Non-Ilse	Non-Hse Admifers		
			≥SQT	≤ 2500			< SQL	TDS > 2500				o in har		Soil
DEC: ATED SIBSTANCE	NGOV	Resid	dential	Non-Re	Non-Residential	Resid	Residential	Non-Residentia	sidential	Resi	Residential	Non-Residentia	idential	Buffer
AFGOLATED SODS ANCE		100 X GW	Generic Value	100 X GW	Generic Value	100 X GW	Generic Value	100 X GW GW	Generic Value	100 X GW MeC	Generic Value	100 X GW	Generic Value	Distance (feet)
TEICH OBOETHYI ENE (TCE)	70.01.6	M3 C	0.47 E	300	0.17 F	50	17 F	20	17E	5	1.7E	5	1.7 E	¥
TEICHLORDEINILEINE (ICE)	95-95-4	370	2300 F	100	6 100 E		190,000 C	100,000		100,0	190,000 C	100,00	190,00 C	15
TEICHLOROPHENOL, 2,4,5-	88-06-2	1137	13 11 11 E 13 11 10	13 41 40	18 91 29 F	[110]	13101E	[310]	18901 E		[3,100] E	[3,100]	[8,900] E	20
I RICHEOROPHEINOL, 2,4,0-	7-00-00	<u>;</u>	: : ::	의 - -				1,000	2,900	_	11,000			
TRICHLOROPHENOXYACETIC	93-76-5	7	1.5 E	7	1.5 E	700	150 E	002	150 E	000'2	1,500 E	2,000	1,500 E	Ϋ́
TRICHLOROPHENOXYPROPIO	93-72-1	5	22 E	2	22 E	200	2,200 E	200	2,200 E	5	22 E	5	22 E	20
NIC ACID, 2,4,5- (2,4,5- TP)(SILVEX)	}													
TRICHLOROPROPANE, 1,1,2-	598-77-6	18	3.1 E	51	8.7 E	1,800	310E	5,100	870 E		3.1 E		8.7 E	
TRICHI OROPROPANE 123-	96-18-4	4	3.2 E	4	3.2 E	400	320 E	400	320 E	400	320 E		320 E	
TRICHLOROPROPENE, 1,2,3-	96-19-5	[18] 0.2	[11] <u>0.12</u> E	[51]	[30] <u>0.52</u> E	[1,800]	[1,100] E 12	[5,100] 88	[3,000] 52	[18]	[11] <u>0.12</u> E	[51] 0.88	[30] E 0.52	Š
TRIETHY! AMINE	121-44-8	1.5	0.36 E		1.5 E		36 E	620	150 E	1.5	0.36 E	6.2	1.5 E	ΑN
TRIELLIRALIN	1582-09-8	0.5		0.5	0.96 E	20	396 E	20	396 E	0.5	0.96 E		0.96 E	30
TRIMETHYLBENZENE, 1,3,4-	95-63-6	[1.6] 1.5	6	[3.5]	[20] <u>35</u> E	[160]	[900] E	[350]	[2,000] E	[160]	[900] 840	[350] 620	[2,000] E	15
(TRIMETHYLBENZENE, 1,2,4-)	010007	27.07.7			3				100g	Ĺ	12 81 2 3 E	13.5	16 21 F	30
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[7.6]	[2.8] <u>2.3</u>	5.3	اه.د <u>ا ع.ی</u> ا	130	230	<u> </u>	930	-	20.2]	5	9.3	3
TRINITROGLYCEROL	55-63-0	0.5	0.056 E	0.5	0.056 E	20	5.6 E	ଥ	5.6 E	0.5	0.056 E	0.5	0.056 E	ĕ
TRINITROTOLUENE 246-	118-96-7	0.2	0.023 E	0.2	0.023 E	20	2.3 E	20	2.3 E	0.2	0.023 E		0.023 E	
VINYL ACETATE	108-05-4	[55] 42		[120]	[14] <u>21</u> E	[5,500] 4,200	[650] 500	[10,000]	[1,400] E 2,100	[55] <u>42</u>	[6.5] <u>5</u> E	[120] 180	[14] <u>21</u> E	Š
BOMIDE STATE	503-60-2	[0 14]	FO 0681 F	[0.58]	10.281 E	[14] 15	[6.81 E	7=	[28] 38 E	[1.4]	[0.68] E	[5.8] 7.8	[2.8] E	Ϋ́
(BROMOETHENE)	1	0.15			0.38								3.8	
VINYL CHLORIDE	75-01-4	0.2	0.027 E	0.2	0.027 E	20	2.7 E		2.7 E		0.27 E		0.27 E	₹
WARFARIN	81-81-2	1.1	2.6 E	3.1	7.4 E	- 1	260 E		740 E	- 6 9	2,600 E		4,100 E	8
XYLENES (TOTAL)	1330-20-7	1,000	6	٦,	3066	\neg	10,000 C	-	10,000 C	위	10,000 C	9	10,000 C	
ZINEB	12122-67-7		29 E	510	81 E	1,000	160E	1,000	160E	180	29E	210	81 E	₹

¹ For other options see Section 250.308
All concentrations in mg/kg
E - Number calculated by the soil to groundwater equation in Section 250.308
C - Cap
NA - The soil buffer distance option is not available for this substance

APPENDIX A

Table 4 - Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil

A. Direct Contact Numeric Values

		Decidentie	. 1	Non-Res	ide	ntial MSCs	
REGULATED SUBSTANCE	CASRN	Residentia MSC	۱	Surface Soil		Subsurface Soil	е
		0-15 feet		0-2 feet		2-15 feet	
ALUMINUM	7429-90-5	190,000	С	190,000		190,000	
ANTIMONY	7440-36-0		G	1,100		190,000	_
ARSENIC	7440-38-2	12	G	53	G	190,000	C
BARIUM AND COMPOUNDS	7440-39-3	[15,000] <u>44,000</u>	G	190,000	С	190,000	С
BERYLLIUM	7440-41-7	440	G	5,600	G	190,000	С
BORON AND COMPOUNDS	7440-42-8	[20,000] <u>44,000</u>	G	190,000		190,000	
CADMIUM	7440-43-9	[47] <u>110</u>	G	[210] <u>1,400</u>	G	190,000	С
CHROMIUM III	16065-83- 1	190,000		190,000		190,000	
CHROMIUM VI	18540-29- 9	[94] <u>660</u>	O	[420] <u>8,400</u>	G	[190,000] <u>20,000</u>	
COBALT	7440-48-4	[4,400] <u>66</u>	G	[56,000] <u>840</u>		190,000	
COPPER	7440-50-8	[8,200] 8,100	G	100,000	G	190,000	С
CYANIDE, FREE	57-12-5	4,400	G	56,000	G	190,000	С
FLUORIDE	16984-48- 8	<u>8,800</u>	<u>G</u>	110,000	G	<u>190,000</u>	<u>G</u>
IRON	7439-89-6	[66,000] <u>150,000</u>	G	190,000		190,000	
LEAD	7439-92-1	500		1,000		190,000	
<u>LITHIUM</u>	7439-93-0	<u>440</u>		<u>5,600</u>		<u>190,000</u>	
MANGANESE	7439-96-5	[31,000] <u>10,000</u>		[190,000] <u>130,000</u>	С	190,000	С
MERCURY	7439-97-6	[66] <u>35</u>	G	[840] <u>450</u>		190,000	
MOLYBDENUM	7439-98-7	<u>1,100</u>	G	<u>14,000</u>		<u>190,000</u>	
NICKEL	7440-02-0			56,000		190,000	
PERCHLORATE	7790-98-9	<u>150</u>		2,000		<u>190,000</u>	
SELENIUM	7782-49-2	1,100	-	14,000		190,000	
SILVER	7440-22-4	1,100		14,000		190,000	
THALLIUM	7440-28-0			200		190,000	
TIN	7440-31-5		_	190,000	_	190,000	
VANADIUM	7440-62-2			20,000		190,000	_
ZINC	7440-66-6	66,000	G	190,000	l C	190,000	C

All concentrations in mg/kg

G - Ingestion

N - Inhalation

C - Cap

U - UBK Model

S - SEGH Model

APPENDIX A
Table 4 - Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values

				i										
					Used A	Used Aquifers					Non-use Admifers	Aquifers		
			TDS =	2500			< SQ1	2500						Soil
REGULATED	1000	82		z	NR	2		NR	~	~	-1	NR	~	Buffer
SUBSTANCE	CASKN	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	Distance (feet)
MINIM	7429-90-5		Ϋ́	¥	Ž	¥	¥	¥	Ϋ́	ΑN	NA	NA	ΝA	¥
ANTIMONY	7440-36-0		27	9.0		9	2,700	09	2,700	009	27,000	009	27,000	15
ARSENIC	7440-38-2	[5] 1	[150] 29	[5] 1		[150] 29 [500] 100	[15,000]	[500] 100	[15,000]	[5,000]	[150,000]	[5,000]	[150,000]	5
	7440 00 0		000	000		000 00	190 000	20,000	190 000	190,000	190,000	190,000	190,000	15
BARIUM AND COMPOUNDS	/440-39-3	700	8,200	200	0,200	20,000	30,000	20,000	20,00	200,001	200	20,00		2
BERYLLIUM	7440-41-7	0.4	320	0.4	320	40	32,000	4	32,000	9	190,000	9	190,000	10
BORON AND	7440-42-8		60 [6.7] 190	09	[6.7] 190	000'9	[670] 19,000	000'9	[670] 19,000	000'09	[6,700] 190,000	000'09	[6,700] 190,000	[NA] <u>30</u>
CADMIIM	7440-43-9	0.5	38	0.5	38	20	3,800	20	3,800	200	38,000	200	38,000	15
CHROMILIM	16065-83-1		190.0	10	190,0	1,000	190,000	1,000	190,000	10,000	190,000	10,000	190,000	သ
CHROMIIM (VI)	18540-29-9		1	10	190	1,000	19,000		19,000	10,000	190,000	10,000	190,000	15
COBALT	7440-48-4	[73] 1	[8.1] 50	[200] 3	[22] 140	[7,300] 110	[810] 5,000	[20,000] 310	[2,200] 14,000	[73,000] 1,100	[8,100] 50,000	[190,000] 3,100	[22,000] 140,000	[NA] <u>15</u>
COPPER	7440-50-8	100	[36,000]	100	[36,000]	10,000	19	10,000	190,000	100,000	190,000	100,000	190,000	10
CYANIDE FREE	57-12-5	20	1	20	200	2,000	20,000	2,000	20,000	20,000	-	20,000	190,000	20
FLUORIDE	16984-48-8	400	4	400	41	40,000	4,400	44,000	4,400	190,000	44,000	190,000	44,000	
IRON	7439-89-6	Ą		Ϋ́		NA	NA	ΑN	¥	¥	₹	¥	¥	¥.
LEAD	7439-92-1	0.5	450	0.5	450		45,000	20	45,000	200	`	200	190,000	10
LITHIUM	7439-93-2	7	2,200		6,000	730	190,000	2,000	190,000	7,300	130	20,000	190,000	2
MANGANESE	7439-96-5	[NA] 30	[NA] 2.000	0E [VN]	[NA] 2.000	3,000	[NA] 190,000	3,000	[NA] 190,000	30,000		[NA] 30,000	[NA] 190,000	[NA] 15
MERCURY	7439-97-6	0.2		0.2		20	1,000	20	1,000	200			10,000	15
MOI YBDENUM	7439-98-7		650	4	099	400	65,000	400	65,000	4,000	Ì	4,000	190,000	15
NICKEL	7440-02-0	10		10		1,000	65,000	1,000	65,000	10,000	19		190	15
PERCHLORATE	7790-98-9	2.6	0.29	7.2	9.0			720	8	2,600			-	≨IS
SELENIUM	7782-49-2			5				200	2,600	5,000	- 1	- [8
SILVER	7440-22-4					1,0		1,000	8,400	10,000	-	2	84,000	20
THALLIUM	7440-28-0	0.2	14	0.2	4	20	1,400	20	1,400	200	14,000	700	14,000	CI

¹ For other options see Section 250.308
All concentrations in mg/kg
R – Residential
NR – Non-Residential
[G – Ingestion]
[H – Inhalation]
[C – Cap]
[U – UBK Model]
[S – SEGH Model]
NA - Not Applicable

APPENDIX A Table 4 - Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil B. Soil to Groundwater Numeric Values

					Used Aquifers	quifers					Non-use Aquifers	Aquifere		
			TDS =	3S = 2500			TDS > 2500	2500			200-1101	o lo libba		Soil
REGULATED	NOOVO	8		Z	R.	E		NR	}	æ		NR		Buffer
UBSTANCE	NASA2	100 X Gene GW Valu	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	(feet)
	7440-31-5	1	[240]	6,100	[680] 190.000	ı	190,000 [24,000]	190,000	190,000 [68,000]	190,000	190,000	190,000	190,000 190,000 [NA] 10	[NA] <u>10</u>
	7440-62-2	26	26,000	72	72,000	2,600	190,000	7,200	190,000	26,000	190,000	26,000 190,000 72,000 190,000	190,000	5
	7440-66-6	200	12	200	12,000	20,000	190,000		20,000 190,000	190,000	190,000	190,000	190,000	15

¹ For other options see Section 250.308
All concentrations in mg/kg
R - Residential
NR - Non-Residential
[G - Ingestion]
[H - Inhalation]
[C - Cap]
[U - UBK Model]
[S - SEGH Model]
NA - Not Applicable

APPENDIX A TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES

					A. ONOAMO NEGGENIES GOLG.									
Regulated Substance	cAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] <u>RfC</u> (mg/m ³)	[CSFi (mg/kg-d)-1] IUR (µg/m³) ⁻¹	Ϋ́ο	V0C?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
ACENAPHTHENE	83-32-9	0.06		[0.06] [1r]		4,900		3.8	1,5,6				279	1.24
ACENAPHTHYLENE	208-96-8			[0.06]		4,500		1.91	5,6,7				280	2.11
ACEPHATE	30560-19-1	0.004	0.0087 <u>j</u>			6		818,000	9				340	
ACETALDEHYDE	75-07-0		[0.0077] [11]	[0.0026] 0.009	[0.0077] 0.0000022	4.1	×	1,000,000	1	13,100	15,100	×	20	
ACETONE	67-64-1	[0.1] 0.9		۵		0.31	×	1,000,000	1	13,100	15,000	×	56	18.07
ACETONITRILE	75-05-8			10.017]		9.0	×	1,000,000	1	13,100	15,000	×	82	4.50
ACETOPHENONE	98-86-2	0.1		[0.1] [1.1]		170		5,500	1			×	203	
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3		3.8 C		[3.8] 0.0013	1,600		10.13	7				303	0.69
ACROLEIN	107-02-8	[0.02] [H] 0.0005		[0.000005 + 7] 0.00002		0.56	×	208,000	1,2,4	13,100	15,100	×	53	4.50
ACRYLAMIDE	79-06-1		4.5 [Ir]	[0.0002] [Ir]	[4.55] 0.0013	25	×	2,151,000	4	13,000	15,000	E	[192.6] 193	
ACRYLIC ACID	79-10-7	0.5 1		[0.000286] 0.001		29	×	1,000,000	2	13,000	14,900	×	141	1.39
ACRYLONITRILE	107-13-1	[0.001] [H] 0.04 D	0.54	[0.000571]	[0.238] 0.000068	11	×	73,500	1	13,100	15,100	×	77	5.50
ALACHLOR	15972-60-8	0.01	[0.08] [H] 0.056 C	[0.01] [Irī	[0.08] [Hr	110		140	2				[100] 378	
ALDICARB	116-06-3	0.001		[0.001] [lr]		22		6,000	2				287	0.40
ALDICARB SULFONE	1646-88-4	0.001				10		8,000	SI				317	
ALDICARB SULFOXIDE	1646-87-3					0.22		330,000	9				307	
ALDRIN	309-00-2	0.00003	1 11	[0.00003] [1r]	[17.15] 0.0049	48,000		0.02	4,5,6				[145] 330	0.22
ALLYL ALCOHOL	107-18-6	0.005		[0.005] [lr] 0.0003 P		3.2	×	1,000,000	2	13,100	15,000	×	97	18.07
AMETRYN	834-12-8	0.009				389		185	5				345	
AMINOBIPHENYL, 4-	92-67-1		21 C		[21] <u>0.006</u> C	110		1,200	9				302	18.07
AMITROLE	61-82-5	10	0.94 C		[0.945] C 0.00027	120		280,000	4				[200] 258	69.0
AMMONIA	7664-41-7	H 76.0		[0.0286]		3	×	310,000	2,5,7	13,100	15,000	×	[-33.3] -33	
AMMONIUM SULFAMATE	7773-06-0	0.2 1		[0.2] [L]		3		2,160,000	10				[200] 603	
								All and a second	At all a surface	secondary landing that a 44 miles	400000			

Aquegus solubility references are keyed to the numbered list found at 250.304(f). Where there are multiple sources cited, the table value is the median of the values in the individual references.

Toxicity Value Sources:
C = California EPA Cancer Potency Factor
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TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES APPENDIX A

							I							
Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m³)	[CSFi (mg/kg-d)-1] IUR (µg/m³) ⁻¹	Кос	vocs	Aqueous Sol (mg/L)	Aqueous Sol Reference	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
ANILINE	62-53-3	0.007 [N]	0.0057	[0.000286] 0.001	[0.0056] C	190	×	33,800	1	13,000	14,900	×	184	
ANTHRACENE	120-12-7	0.3		[0.3] [H]		21,000		0.066	1,5,6,7,8,9				340	0.28
ATRAZINE	1912-24-9	0.035 1	[0.222] [H] 0.23 C	[0.035] [Irl	[0.222] [Hr	130		70	2,4,5				[200] <u>313</u>	
AZINPHOS-METHYL (GUTHION)	86-50-0	0.003 D		0.01 D		407.4		31.5	1.2				421	
BAYGON (PROPOXUR)	114-26-1	0.004		[0.004] [17]		31		2,000	2,4,5				decomb.	4.50
BENOMYL	17804-35-2	0.05				1,900		2	2				220	
BENTAZON	25057-89-0	0.03				13		200	2				415	
BENZENE	71-43-2	[0.003] [N] 0.004 _	[0.029] 0.055	[0.0017] [N] 0.03	[0.027] 0.0000078	58	×	1,780.5	1,2,3,4	13,100	15,000	×	81	0.35
BENZIDINE	92-87-5	0.003	230	[0.003]	[230] [l <u>r]</u> 0.067	530,000		520	1,2,4				400	15.81
BENZOĮAJANTHRACENE	56-55-3		0.73 N		[0.31] [T] 0.00011 C	350,000		0.011	1,5,6				438	0.19
BENZO[A]PYRENE	50-32-8		7.3 1		[3.1] [N] 0.0011 C	910,000		0.0038	1,5,6				495	0.24
BENZO[BJFLUORANTHENE	205-99-2		0.73 N		[0.31] [T] 0.00011 C	550,000		0.0012	5,6,7				357	0.21
BENZOIGHIJPERYLENE	191-24-2	0.06 S		[8] [90:0]		2,800,000		0.00026	1,5,6				500	0.19
BENZOĮKJFLUORANTHENE	207-08-9		0.073 N	,	[0.031] [T] 0.00011 C	4,400,000		0.00055	5,6,7				480	0.06
BENZOIC ACID	65-85-0	1 4		[4] [14]		32		2,700	2,3,4,5				249	
BENZOTRICHLORIDE	7-70-86		13 1			920		53	1,5,13			×	221	121,413.60
BENZYL ALCOHOL	100-51-6	100-51-6 [0.3] <u>0.5</u> [H]		[0.3] [Hr		100		40,000	1,2,3			×	205	
BENZYL CHLORIDE	100-44-7	0.002 P	0.17	0.001 P	[0.1715] 0.000049	190	×	493	1	13,000	15,000	×	179	7
BETA PROPIOLACTONE	57-57-8		<u>취</u>		0.004 C	4	×I	370,000	2	13,100	15,000	×I	162	0.01
внс, агрна	319-84-6	0.008 D	6.3	[S] [9000°0]	[6.3] 0.0018	1,800		1.7	4,5,6,7				288	0.94
BHC, BETA-	319-85-7	319-85-7 [0.0006] [D]	1.8	[0.0006] [Dr	[1.855] ₁ 0.00053	2,300		0.1	9				[60] 304	1.02
[BHC, DELTA-]	[319-86-8]	[319-86-8] [0.0006] [S]		[8] [9000:0]		[1,900]		[8]	[9]				[60]	[1.26]
BHC, GAMMA (LINDANE)	58-89-9	0.0003	[1.3] 1.1 [H]	[0.0003] [Ir]	[1.085] C 0.00031	1,400		7.3	4,5,6				323	1.05

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TABLE 5 - PHYSICAL AND TOXICOLOGICAL PROPERTIES A. ORGANIC REGULATED SUBSTANCES **APPENDIX A**

589.39 Degradation Coefficient (K)(yr⁻¹) 18.07 4.68 4.22 69.0 0.65 0.69 5.75 57,270.57 Boiling Point (degrees C) 315 218 179 105 384 220 68 329 414 4.5 118 38 [173.5] 174 169 259 421 [183.1] 183 [200] 311 Organic Liquid × × × × × × × ×I × × × × × ×I × 15,100 15,000 Vol from SubSurface Soil 14,900 14,900 15,200 14,900 15,100 15,000 15,000 15,000 15,000 15,000 13,100 13,000 13,000 13,100 13,100 13,100 13,000 13,200 13,100 13,100 13,100 TF Vol from Surface Soil 1,5,6 1,4,5 4,5,6 2,4,5 1,6,7 1,6,7 1,6,7 4,6,7,9,10,1 4,5,6 Aqueous Sol Reference 3 2 100,500 10,200 17,500 0.08 74,000 15 120 Aqueous Sol (mg/L) 1,700 22,000 0.285 120 815 16,700 4,500 130 735 2.69 VOC × × × × × × × × 2,500 43 9/ 62 1,500 27 8 170 18,000 120 540 890 989 34,000 190 2,500 87,000 200 1,700 61 300 Š [CSFi (mg/kg-d)-1] IUR (µg/m³)⁻¹ ပ ပ [0.00231] [0.1295] 0.000037 [0.98] [0.2] [17] [0.13] [Ir] [0.1] [17] [0.1] [F] [0.02] [1r] [0.005] [14] [0.05] [17] [0.04] [17] [0.02] [17] [RfDi (mg/kg-d)] <u>RfC</u> (mg/m³) [0.0014] 0.005 0.002 [0.0035] [H] 0.0023 C ပ 0.0019 P <u>-</u> I 0.014 CSFo (mg/kg-d)⁻¹ 0.02 0.07 220 0.062 3.4 0.1 M 0.04 N 0.04 N 0.04 N 0.01 M 0.05 - 1.0 RfDo (mg/kg-d) 0.05 0.02 0.005 0.02 0.2 0.13 6. 0.003 0.02 0.0014 0.02 0.05 0.04 63-25-2 1563-66-2 74-97-5 71-36-3 2008-41-5 80-05-7 75-27-4 74-83-9 104-51-8 135-98-8 9-90-86 86-74-8 314-40-9 106-99-0 85-68-7 133-06-2 92-52-4 111-91-1 108-60-1 117-81-7 1689-84-5 1689-99-2 111-44-4 542-88-CAS BIS(2-CHLORO-ISOPROPYL)ETHER 3IS(2-CHLOROETHOXY)METHANE BIS[2-ETHYLHEXYL] PHTHALATE Regulated Substance BIS(2-CHLOROETHYL)ETHER BIS(CHLOROMETHYL)ETHER **SROMODICHLOROMETHANE** SROMOXYNIL OCTANOATE **3UTYLBENZYL PHTHALATE SROMOCHLOROMETHANE 3UTYLBENZENE, TERT** BUTYLBENZENE, SEC-BUTYL ALCOHOL, N-**3UTYLBENZENE, N-**ROMOMETHANE 3UTADIENE, 1,3-CARBOFURAN BIPHENYL, 1,1-ISPHENOL A SROMOXYNIL CARBAZOLE CARBARYL BUTYLATE BROMACIL CAPTAN

C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
1 = Integrated Risk information System (RIS)
M = EPA Drinking Water Regulations and Health Advisories

T = TEF TE = TERA ITER Peer-Reviewed Value

N = EPA NCEA Provisional Value
P = EPA Provisional Peer-Reviewed Toxicity Value
[r = FORD Frovisional Peer-Reviewed Toxicity Value
[r = route-to-route extrapolation]
S = surrogate

Aqueous solubility references are keyed to the numbered list found at 250.304(f). Where there are multiple sources cited, the table value is the median of the values in the individual references.

APPENDIX A
TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m ³)	[CSFi (mg/kg-d)-1] IUR (µg/m³)-1	Koc	V0C?	Aqueous Sol (mg/L)	Aqueous Sol Reference	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
CARBON DISULFIDE	75-15-0	0.1		10.2] 0.7		300	×	2,100	1,2,3	13,100	15,100	×	46	
CARBON TETRACHLORIDE	56-23-5	0.0007	0.13	[0.00057] [N] 0.19 D	[0.0525] 0.000015	160	×	795	1,2,3	13,100	15,000	×	77	0.07
CARBOXIN	5234-68-4	0.1				260		170	5,6,8				407	
CHLORAMBEN	133-90-4	0.015 1		[0.015] [1r]		20		200	2				210	
CHLORDANE	57-74-9	0.0005 1	0.35	[0.0002] 0.0007	0.35]	98,000		0.056	4,5,7				[175] <u>351</u>	[0.091]
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3			[14.3] 50		22	×I	1,400	4	13,100	15,000	×i	[-9.2]	
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	107-05-1 [0.00028 [Ir]	0.021 C	[0.000286] 0.001	[0.021] C	48	×	3,300	1,3,5,7,10	13,100	15,000	×	45	18.07
CHLOROACETOPHENONE, 2-	532-27-4	532-27-4 [0.00000 [Ir]		[0.000008 57] 0.00003		76		1,100	3				247	4.50
CHLOROANILINE, P-	106-47-8	0.004	0.2 P	[0.004] [lr]		460		3,900	1				232	
CHLOROBENZENE	108-90-7	0.02		[0.00571] [H] 0.05 P		200	×	490	3	13,100	15,000	×	132	0.84
CHLOROBENZILATE	510-15-6	0.02	[0.27] 0.11 [H]	[0.02] [Ir]	[0.273] [H] 0.000031 C	2600		13	4		,	E	415	3.60
CHLOROBUTANE, 1-	109-69-3	H 4.0				580	×	089	1,2,3,4	13,200	15,000	×	[78.5] 79	
CHLORODIBROMOMETHANE	124-48-1	0.02	0.084	[0.02] [1r]	[0.0945] C 0.000027	83	×	4,200	4,6,7,9	13,100	15,100	×	116	1.39
CHLORODIFLUOROMETHANE	75-45-6			[14] 50		59	×	2,899	4	13,200	15,000	×I	[-40.8] -41	
CHLOROETHANE	75-00-3	0.4 [ir]	0.0029 N	[2.86] 10	[0.0029] [Nr]	42	×	5,700	-	13,100	15,000	×	12	4.50
CHLOROFORM	67-66-3	0.01	[0.0061] [1]	[N] [600000] 0.098 D	[0.0805] 0.000023	56	×	8,000	1,2,3	13,100	15,000	×	61	0.01
CHLORONAPHTHALENE, 2-	91-58-7	0.08		[0.08] [1r]		8,500		11.7	1				256	
CHLORONITROBENZENE, P-	100-00-5	0.001 P	[0.018] [H] 0.0063 P	10.000171 0.0006 P		480		220	-				242	
CHLOROPHENOL, 2-	95-57-8	0.005		[0.005] [Ir]		400	×	24,000	1,3,4	12,900	14,900	×	175	
CHLOROPRENE	126-99-8	0.02 H		[0.002] H		50	×	1,736	6	13,100	15,000	×	59	69.0
CHLOROPROPANE, 2-	75-29-6			[0.0286] H		260	×	3,100	1,3,5	13,200	15,000	×	[47.2] 47	

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TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES A. ORGANIC REGULATED SUBSTANCES APPENDIX A

0.02 0.02 5.16 0.02 9.03 18.07 18.07 Degradation Coefficient (K)(yr⁻¹) [0.126] 0.13 15.81 401 448 [193] 350 [200] 377 360 139 312 191 202 202 235 4 157 222 348 260 162 84 [152] 531 Bolling Point Organic Liquid \mathbf{z} × ×I Ξ × ×I × TF Vol from SubSurface Soil 15,000 14,900 14,900 15,100 15,100 15,100 14,900 14,900 14,900 [15,000] 13,100 13,100 13,100 13,100 13,000 13,000 13,000 13,000 13,000 [13,000] TF Vol from Surface Soil 14,15 1,2,4,5 5.6.7 1,5,6 5,6,7 2,4,6,7 1,2,4,5,6 Aqueous Sol Reference¹ 2,5,6,8,9 3,5,6 2,5,7 2,500 36,500 192 0.5 0.0019 20,000 22,000 180,000 156,000 20 17 S 0.001 11,000 0.16 0.04 0.0055 Aqueous Sol (mg/L) 3,846 **VOC**3 × Σ 375 4,600 257 [97] 22 35 49 780 2,800 199 479 66 5.6 130,000 760 6.1 44,000 87,000 240,000 980 6,500 490,000 1,200 훇 [1.9] [Sr 되고 [CSF! (mg/kg-d)-1] IUR (µg/m³)⁻¹ [0.0031] [T] ပ ပ [0.2415] 0.000069 [0.34] 0.000097 [0.0031] 0.0000008 [2] [1-] [0.0005] [1r] O [0.003] [14] -9 [RfDi (mg/kg-d)] (mg/m³) [0.11] 0.4 900 [0.011] [H] 0.0031 C 1.9 H 0.34 1.9 S 0.24 0.34 CSFo (mg/kg-d)⁻¹ 0.0073 0.84 0.005 H 0.1 œ١ 0.05 0.005 S 0.0001 P 0.05 0.05 0.00Z 0.025 0.0075 0.003 0.01 RfDo (mg/kg-d) 0.005 0.015 0.002 0.0005 0.02 0.07 50-29-3 72-54-8 534-52-1 95-48-7 106-44-5 29-20-7 123-73-9 98-82-8 21725-46-2 110-82-7 1897-45-6 95-49-8 106-43-4 108-94-1 66215-27-8 2921-88-2 218-01-9 1319-77-3 108-39-4 4170-30-3 68359-37-5 72-55-9 64902-72-3 1861-32-1 CAS (DACTHAL) CRESOL, O- (METHYLPHENOL, 2-) CRESOL, M (METHYLPHENOL, 3-) CRESOL, P (METHYLPHENOL, 4-) CUMENE (ISOPROPYL BENZENE) Regulated Substance CROTONALDEHYDE, TRANS-CHLORTHAL-DIMETHYL (DCPA) CRESOL, 4,6-DINITRO-O CRESOL, P-CHLORO-M-CHLOROTOLUENE, O-CHLOROTOLUENE, P. CROTONALDEHYDE CYCLOHEXANONE CHLOROTHALONIL CHLORSULFURON CHLORPYRIFOS CYCLOHEXANE CYROMAZINE CYFLUTHRIN CYANAZINE CHRYSENE CRESOL(S) DDD, 4,4'-DDE, 4,4'-DDT, 4,4'-

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Toxicity Value Sources:

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In integrated Risk information System (RRS)

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TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES APPENDIX A

							T							
Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] <u>RfC</u> (mg/m [*])	[CSFi (mg/kg-d)-1] IUR (µg/m³)-1	Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	1 9.0	0.0012			47,000,000		200	2	[13,000]	[14,900]	×	214	4.50
DIALLATE	2303-16-4		0.061 H		[0.061] [Hr	190	×	40	2,4,6,8	[12,900]	[14,900]	×	[150] 328	1.39
DIAMINOTOLUENE, 2,4-	2-80-2		[3.2] 3.8 [H]		[4] <u>0.0011</u> C	36		7,470	4				292	0.69
DIAZINON	333-41-5	[0.0009] [H] [0.0000		[0.0009] [Hr		200		50	2,4,6,8			×I	306	
DIBENZOĮA, HJANTHRACENE	53-70-3		7.3 N		[3.1] [T] 0.0012 C	1,800,000		0.0006	1,5,6				524	0.13
DIBENZOFURAN	132-64-9	0.001 P				10,233		4.48	1,6,7,9				287	7.23
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	[0.00005 [Ir] 71] [Ir] 0.0002	[1.4] <u>0.8</u> [H]	[0.000057 1] 0.0002	[0.00242] [H] 0.006 P	140	×	1,000	4	13,000	15,000	×	196	0.69
DIBROMOBENZENE, 1,4-	106-37-6	0.01				1,600		20	1				[220.4] 220	
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	106-93-4 [0.00005 [Hr]	[85] 2	[0.000057 [H] 1] 0.009	0.0006	54	×	4,150	1,2,3,5	13,100	15,100	×	131	2.11
DIBROMOMETHANE	74-95-3	0.01 H		[0.01] [Hr		110	×	11,400	1	13,100	15,100	×	96	4.50
DIBUTYL PHTHALATE, N-	84-74-2	0.1		[0.1] [1.]		1,600		400	1,2,3			×	340	11.00
DICAMBA	1918-00-9	0.03				0.27		5,600	4,5,6,8,10				329	
DICHLOROACETC ACID	76-43-6	0.004				8.1	×	1,000,000	+	12,900	14,900	×I	194	
DICHLORO-2-BUTENE, 1,4-	764-41-0				[9.3] [H] 0.0042 P	180	×I	850	6	13,100	15,000	×I	156	
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6				0.0042 S	215	×	850	OI	12,900	14,800	×I	155	
DICHLOROBENZENE, 1,2-	95-50-1	1 60.0		[0.0571] H		350	×	147	1,4,5,6,7	13,100	15,100	×	180	69.0
DICHLOROBENZENE, 1,3-	541-73-1	[0.03] 0.003				360	×	106	1	13,100	15,100	×	173	69.0
DICHLOROBENZENE, P-	106-46-7	[0.03] [N] 0.07 D	[0.024] [H] 0.0054 C	[0.229] <u>0.8</u> 1	[0.022] [N] 0.000011 C	510	×I	82.9	-	12,900	14,900		174	69.0
DICHLOROBENZIDINE, 3,3'-	91-94-1		0.45		[1.19] C 0.00034	22,000		3.11	4,5,6				368	69.0
DICHLORODIFLUOROMETHANE (FREON	75-71-8	0.2 1		[0.0571] H		360	×	280	-	13,200	15,000	×	-30	0.69
DICHLOROETHANE, 1,1-	75-34-3	75-34-3 [0.1] <u>0.2</u> [H]	0.0057 C	[0.143] <u>0.5</u> H	[0.0056] C	52	×	5,000	2	13,100	15,000	×	57	0.16

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APPENDIX A
TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES

Regulated Substance C									•				•	
	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m³)	[CSFi (mg/kg-d)-1] IUR (µg/m³)-1	Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
DICHLOROETHANE, 1,2-	107-06-2	[0.03] [N] 0.02 P	0.091	[0.23] <u>2.4</u> D	[0.091] 1 0.000026	38	×	8,412	1,2,3,4	13,100	15,000	×	83	[0.69] <u>0.07</u>
DICHLOROETHYLENE, 1,1-	75-35-4	1 20.0]	[0.6] [1]	[0.009] <u>0.2</u> [^[r]]	[0.175] [1]	65	×	2,500	1,4,5	13,100	15,000	×	32	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	E 10:0		[0.01] [1r]		49	×	3,500	-	13,100	15,000	×	09	0.01
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	0.02		[0.02] <u>0.06</u> [lr]		47	×	6,300	1	13,100	15,000	×	48	0.01
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.06	0.0075	[0.8571] 1 [H]	[0.00165] 0.0000004 1	16	×	20,000	1,2,3	13100	15,000	×	40	4.50
	120-83-2	0.003		[0.003] [1r]		160		4,500	-				210	5.88
DICHLOROPHENOXYACETIC ACID, 2,4-	94-75-7	0.01		[0.01] [14]		59		677	4,5,6,7,10				215	1.39
	78-87-5	0.09 D	[0.068] [H] 0.036 C	[0.0011] 0.004	[0.036] C	47	×	2,700	1,3,4	13,100	15,000	×	96	0.10
DICHLOROPROPENE, 1,3- 5	542-75-6	0.03	0.1	[0.0057] 0.02	[0.014] 0.000004	27	×	2,700	6	13,100	15,000	×	108	22.38
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	0.03		[0.03] [1r]		62	×	500,000	5	13,000	14,900	×	190	2.11
	62-73-7	0.0005	0.29	[0.000143] _{0.0005}	[0.291] C	50		10,000	2,4,5			×I	[140] 234	
DICYCLOPENTADIENE	77-73-6	[0.03] [H] 0.008 P		[0.000057 [H] 1] 0.007 P		810	×	40	5	13,000	14,900	E	167	
DIELDRIN	60-57-1	0.00005	16 1	[0.00005] [1r]	[16.1] 0.0046	11,000		0.17	4,5,6			Ø	385	0.12
DIETHANOLAMINE	111-42-2			0.003 C		4		1,000,000	2,3,9			×I	269	
DIETHYL PHTHALATE	84-66-2	0.8		[0.8] [14]		81		1,080	4,5,6			×	298	2.25
	35367-38-5	0.02				1,000		0.2					201	
DIISOPROPYL METHYLPHOSPHONATE 14	1445-75-6	0.08				위	×I	160,000	6	13,000	14,900	×I	19	
DIMETHOATE	60-51-5	0.0002		[0.0002] [Ir]		110		25,000	4				[200] 361	2.26
DIMETHOXYBENZIDINE, 3,3-	119-90-4		0.014 H			1,300		09					331	0.69
	70-38-2	0.3 M				27,000		0.036	13				353	

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TABLE 5 - PHYSICAL AND TOXICOLOGICAL PROPERTIES

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m ³)	[CSFi (mg/kg-d)-1] IUR (µg/m³)-1	Кос	Voc?	Aqueous Sol (mg/L)	Aqueous Sol Reference¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
DIMETHYLAMINOAZOBENZENE, P.	60-11-7		4.6 C		[4.55] C 0.0013	1,000		13.6	2				[200] 335	4.50
DIMETHYLANILINE, N,N-	121-69-7	0.002				180	×	1,200	5,6,7,9	13,000	14,900	×	192	0.69
DIMETHYLBENZIDINE, 3,3-	119-93-7		[9.2] <u>11</u> H		[9.2] [Hr	22,000		1,300	10			X	300	18.07
DIMETHYL METHYLPHOSHONATE	756-79-6	0.06 P	0.0017 P			ις	×I	1,000,000	14	13,000	14,900	×	181	
DIMETHYLPHENOL, 2,4-	105-67-9	0.02		[0.02] [1r]		130		7,869	1,4,6,7			×	211	18.07
DINITROBENZENE, 1,3-	99-62-0	0.0001		[0.0004] [1r]		150		523	3,5,6,7				[300] 291	0.69
DINITROPHENOL, 2,4-	51-28-5	0.002		[0.002] [lr]		0.79		5,600	2,4,5,6,7				332	0.48
DINITROTOLUENE, 2,4-	121-14-2	0.002	0.31 C	[0.002] [1r]	[0.31] C 0.000089	51		270	4,5,6		ļ		300	0.69
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	0.001 [H]		[0.001] [Hr		74		200	9				300	0.69
DINOSEB	88-85-7	0.001		[0.001] [1r]		120		90	5				223	1.03
DIOXANE, 1,4-	123-91-1	0.1 D	0.011	3.6 D	[0.027] C 0.0000077	7.8	×	1,000,000	5	13,000	14,900	×	101	0.69
DIPHENAMID	957-51-7	0.03				200		260	5				210	
DIPHENYLAMINE	122-39-4	0.025		[0.025] [Ir]		190		300	3				302	4.50
DIPHENYLHYDRAZINE, 1,2-	122-66-7		0.8 1		[0.77] 0.00022	099		0.252	9				309	0.69
DIQUAT	85-00-7	0.0022		[0.0022] [Ir]		2.6		700,000	5				355	
DISULFOTON	298-04-4	0.00004 1		[0.00004] [ir]		1,000	Σ	25	4,5,6	[13,400]	[15,400]	×	[133] 332	6.02
DITHIANE, 1,4-	505-29-3	0.01				22.7	×	3,000	15	13,000	14,900		199	
DIURON	330-54-1	0.002		[0.002] [Ir]		300		42	2,4,5				354	
ENDOSULFAN	115-29-7	0.006		[0.006] [1r]		2,000		0.48	4				[106] 401	2.78
ENDOSULFAN I (ALPHA)	959-98-8	0.006 S		[0.006] ^{[Sr}		2,000		0.5	9				[200] 401	
ENDOSULFAN II (BETA)	33213-65-9	0.006 S		[0.006] ^{[Sr}		2,300		0.45	9				390	
ENDOSULFAN SULFATE	1031-07-8	0.006 S		[0.006] ^{[Sr}		2,300		0.117	6'2				[200] 409	
ENDOTHALL	145-73-3	0.02		[0.02] [Ir]		120		100,000	2				[200] 350	
ENDRIN	72-20-8	0.0003		[0.0003] [h]		11,000		0.23	4,6,7,9				245	

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TABLE 5 - PHYSICAL AND TOXICOLOGICAL PROPERTIES APPENDIX A

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m ³]	[CSFi (mg/kg-d)-1] IUR (µg/m³)-1	Кос	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
EPICHLOROHYDRIN	106-89-8	[0.002] [H] 0.006 P	0.0099	[0.000286] 0.001	[0.0042] 0.0000012	35	×	65,800	1,3,4	13,000	14,900	×	116	4.50
ЕТНЕРНОМ	16672-87-0	0.005				2		1,240,000	12				201	
ETHION	563-12-2	0.0005		[0.0005] [1r]		8,700		0.85	4,6,9,10			×	[200] 415	
ETHOXYETHANOL, 2- (EGEE)	110-80-5	0.4 H		[0.057] 0.2		12	×	1,000,000	2	13,200	15,000	×	136	4.50
ETHYL ACETATE	141-78-6	1 6.0		[0.9] [1r]		69	×	80,800	1,2,3,4,5,6	13,100	15,000	×	77	18.07
ETHYL ACRYLATE	140-88-5		0.048 H		[0.048] [Hr	110	×	15,000	1,2,6	13,100	15,100	×	100	18.07
ETHYL BENZENE	100-41-4	0.1		[0.286] 1		220	×	161	1,3,4	13,100	15,000	×	136	1.11
ETHYL DIPROPYLTHIOCARBAMATE, S-	759-94-4	0.025				240	×	365	2	12,900	14,900	×	127	
ETHYL ETHER	60-29-7	0.2 1		[0.2] [1r]		89	×	60,400	-	13,100	15,100	×	35	
ETHYL METHACRYLATE	97-63-2	Н 60.0		[0.09] [Hr		22	×I	4635.5	9,10	13,100	15,000	×I	117	
ETHYLENE GLYCOL	107-21-1	2		[2] <u>0.4</u> [lr]		4.4	×	1,000,000	2	13,100	15,100	×	198	10.54
ETHYLENE THIOUREA (ETU)	96-45-7	0.00008	[0.11] [H] 0.045 C	[0.00008] [ir]	[0.045] C	0.23		20,000	2				347	4.50
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	0.00001				1,200		3.1	4				215	
FENAMIPHOS	22224-92-6	0.00025 1		[0.00025] [1-]		300		329	2				[200] 390	
FENVALERATE (PYDRIN)	51630-58-1	0.025				4,400		0.085	5	[20,500]	[25,800]	×	300	
FLUOMETURON	2164-17-2	0.013				89		97.5	2,5,6,8				318	
FLUORANTHENE	206-44-0	0.04		[0.04] [14]		49,000		0.26	1,5,6				375	0.29
FLUORENE	86-73-7	0.04		[0.04] [1r]	,	7,900		1.9	-	1			298	2.11
FLUOROTRICHLOROMETHANE (FREON 11)	1) 75-69-4	0.3		Ю.2] <u>0.7</u> н		130	×	1,090	1,4,5,6	13,100	15,000	×	24	0.35
FONOFOS	944-22-9	0.002		[0.002] [Ir]		1,100	Σ	13	5,6,8	[13,400]	[15,500]	×	[130] 324	
FORMALDEHYDE	20-00-0	0.2 1	[0.0455] [1r]	[0.0011] _{0.0098}	[0.0455] 0.000013	3.6	×	55,000	Ψ-	13,100	15,100	×	-21	18.07
FORMIC ACID	64-18-6	2 H		[2] <u>0.003</u> [H		0.54	×	1,000,000	2	13,000	14,900	×	101	18.07
FOSETYL-AL	39148-24-8	3 -				310		120,000	2				464	
FURAN	110-00-9	0.001				130	×	10,000	1	13,100	15,000	×	[31.36] 31	2.25

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[r = route-to-route extrapolation]
S = surrogate
T = TEF
TEF
TE = TERA ITER Peer-Reviewed Value Toxicity Value Sources:
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TABLE 5 - PHYSICAL AND TOXICOLOGICAL PROPERTIES APPENDIX A

					ייי פועסעוויים ויופספוריים				I			I	I	
Regulated Substance	cAs	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] <u>RfC</u> (mg/m ³)	[CSFi (mg/kg-d)-1] IUR (µg/m³) ⁻¹	Koc	Vocs	Aqueous Sol (mg/L)	Aqueous Sol Reference	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
FURFURAL	98-01-1	0.003		[0.0143] H		6.3	×	91,000	1,2,3	13,000	14,900	×	162	
GLYPHOSATE	1071-83-6	0.1		[0.1] [1-]		3,500		12,000	1,5,6				[186] 417	
HEPTACHLOR	76-44-8	0.0005	4.5	[0.0005] [1r]	[4.55] ₁	6,800		0.18	4,6,7				310	46.84
HEPTACHLOR EPOXIDE	1024-57-3 0.000013	0.000013 1	9.1	[0.000013] [Ir]	[9.1] 0.0026	21,000		0.311	4,6,7,9				[200] 341	0.23
HEXACHLOROBENZENE	118-74-1	0.0008	1.6.1	[0.0008] [1r]	1.61]	3,800		0.006	1,4,5				319	90.0
HEXACHLOROBUTADIENE	87-68-3	[0.0002] [H] 0.001 P	0.078	[0.0002] [Hr	[0.077] 0.000022	4,700		2.89	4,5,6,7			×	215	0.69
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.006		[0.00006] [H] 0.0002 !		7,200		1.8	5,6,7			×	239	4.50
HEXACHLOROETHANE	67-72-1	0.001	0.014	[0.001] [lr]	[0.014] 0.000004	2,200	×I	20	-	13,000	15,000		187	0.69
HEXANE	110-54-3	H 90.0		[0.0574] ₁		3,600	×	9.5	1,5,6	13,100	15,000	×	69	
HEXAZINONE	51235-04-2	0.033				41		330,000	1.2				408	
HEXYTHIAZOX (SAVEY)	78587-05-0	0.025				6,500		0.5	2				539	
	2691-41-0	0.05				4		ις	16				436	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2		3 -	0.0002 C	[17] 0.0049	0.0053	×	1,000,000	2	13,000	15,000	×	[113.5] 114	18.07
HYDROQUINONE	123-31-9	0.04 [H]	0.056 P	[0.04] [Hr		10		70,000	2,3,5				285	18.07
INDENO[1,2,3-CD]PYRENE	193-39-5		0.73 N		[0.31] [T] 0.00011 C	31,000,000		0.062	5				536	0.17
IPRODIONE	36734-19-7	0.04				1,100		13	2				545	
ISOBUTYL ALCOHOL	78-83-1	0.3 1		[0.3] [Ir]		09	×	81,000	1,2,3,4,5	13,000	14,900	×	108	17.57
ISOPHORONE	78-59-1	0.2 1	0.00095	[0.2] <u>2</u>	[0.00095] [1r]	31		12,000	2,4,5			×	215	4.50
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	0.1				1.64		50,000	13			×I	230	
KEPONE	143-50-0	0.0005 D	16 C		[16.1] C 0.0046	55,000		7.6	4				350	
MALATHION	121-75-5	0.02		[0.02] [Ir]		1,300	E	143	4	[14,000]	[16,300]	×	[157] 351	2.46
MALEIC HYDRAZIDE	123-33-1	0.5 1		[0.5] [[r]		2.8		9'000	4				260	

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APPENDIX A
TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES

MANDER MANDER 1 2 6 1 2 6 1 2 6 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 1 2 2 1 2 2 1 2 2 1 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 2 2 1 1 2 <th< th=""><th>Regulated Substance</th><th>CAS</th><th>RfDo (mg/kg-d)</th><th>CSFo (mg/kg-d)⁻¹</th><th>[RfDi (mg/kg-d)] RfC (mg/m³)</th><th>[CSFi (mg/kg-d)-1] IUR (µg/m³)-1</th><th>Koc</th><th>VOC?</th><th>Aqueous Sol (mg/L)</th><th>Aqueous Sol Reference¹</th><th>TF Vol from Surface Soil</th><th>TF Vol from SubSurface Soil</th><th>Organic Liquid</th><th>Boiling Point (degrees C)</th><th>Degradation Coefficient (K)(yr⁻¹)</th></th<>	Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m³)	[CSFi (mg/kg-d)-1] IUR (µg/m³)-1	Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
175-649 0.00003 1 0.00003 0.000003 0.000003 0.000003 0.000003 0.00003 0.00003 0.000003 0.00003 0.00003 0.0	0 1 2 2	12427-38-2	0.005				1		23	9,13				351	
126-56-7 0.000 1 1 1 1 1 1 1 1 1	MERPHOS OXIDE	78-48-8	0.00003				53,000	×	2.3	8,10,12	[13,100]	[15,100]	×	[150] 392	
	METHACRYLONITRILE	126-98-7	0.0001				21	×	25,700	1	13,100	15,100		06	
Fig. 2-75- Column Fig. 2-	METHAMIDOPHOS	10265-92-6	0.00005 1				5		2,000,000	5				223	
Total Control METHANOL	67-56-1	0.5 1		[0.5] <u>4</u> [1]		2.8	×	1,000,000	2	13,100			92	36.14	
2	METHOMYL	16752-77-5	0.025		[0.025] [1r]		20		58,000	2				[144] 228	
2 109-86-4 100-003 Protect 1 100-86-4 100-86-4 100-86-4 113-10 15-10	METHOXYCHLOR	72-43-5	0.005		[0.005] [1r]		63,000		0.045	4,5,6				346	0.69
Technolic Tech	METHOXYETHANOL, 2-	109-86-4			[0.00571]			×	1,000,000	2	13,100			[124.3] 124	4.50
September Sept	METHYL ACETATE	79-20-9	- T				30	×	243,500	4,5,6	13,100			<u> [56.9] 57</u>	
ONE 74-87-3 0.004 M 0.013 H D.029 ID 10.0063 H 0.0063 H 0.0064 H	METHYL ACRYLATE	96-33-3					99	×	52,000	1,2,5				20	18.07
78-93-3 0.6	METHYL CHLORIDE	74-87-3			ଅ⊸ା		9	×	6,180	1,2,3,4	13,200			-24	
108-10-1 0.08 H 0.08 H 0.02313 HJ 0.0001 G	METHYL ETHYL KETONE	78-93-3	1 9.0		10.286] 5		32	×	275,000	1,2,3,4,5				80	2.57
624-83-9 Column Colum	METHYL ISOBUTYL KETONE	108-10-1	ı		[0.023] <u>3</u> [H]		17	×	19,550	1,2,4,5				117	18.07
591-78-6 0.04 N 0.005 N 0.005 N 0.0005 N <th< td=""><td>METHYLISOCYANATE</td><td>624-83-9</td><td></td><td></td><td></td><td></td><td>위</td><td>×I</td><td>100,000</td><td>7</td><td>13,000</td><td></td><td></td><td>₽</td><td></td></th<>	METHYLISOCYANATE	624-83-9					위	×I	100,000	7	13,000			₽	
Sec-27-3 1.4	METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	0.04				201	×I	17,500	1	13,100			128	
Cabe 27-3 Cabe 2 Cabe 2 Cabe 2 Cabe 2 Cabe 3 METHYL METHACRYLATE	80-62-6	1.4		[0.2] 0.7		10	×	15,600	1	13,100			100	4.50	
25013-15-4 0.0005 1 0.0018 1 0.00025 1 1 0.00018 1 1 0.00025 1 1 1 1 1 1 1 1 1	METHYL METHANESULFONATE	66-27-3					5.2		200,000	2	ı		×I	203	
25013-15-4 0.006 H 0.0018 C 0.005 I 0.00071 H 0.00071 H 0.00071 H 0.00071 H 0.00072 H 0.00073 H	METHYL PARATHION	298-00-0	0.00025 1		[0.00025] [lr]		790	- 1	25	4,5,6				[133] 348	3.61
1634-044 10.857 [Ird] 0.0018 C 10.857 3 0.00000000000000000000000000000000	METHYL STYRENE (MIXED ISOMERS)	25013-15-4	0.006				2,200	ı	89	6		15,000		163	
94.74-6 0.0005 I 100007 IHJ IO.0007 IHJ I	METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4		ı	[0.857] 3		12		45,000					99	0.69
101-14-4 [0.0007] [H] [0.13] [0.1] [0.0007] [Hr	METHYLCHLOROPHENOXYACETIC ACID	94-74-6	1				112		1,000	5,6,8,9				287	1.39
	METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	[0.0007] 0.002	[0.13] 0.1	\perp	[0.13] 0.00043	3,000		13.9					379	

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TABLE 5 - PHYSICAL AND TOXICOLOGICAL PROPERTIES APPENDIX A

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m ³)	[CSFi (mg/kg-d)-1] IUR (µg/m³)-1	Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
METHYLNAPHTHALENE, 2-	91-57-6	[0.02] [5]		[0.00086] [Ir]		16,000		25				[X]	241	
METHYL STYBENE ALDHA	98-83-9	0.07 H				099	×	260	6	13,100	15,100	×	[165.4] 165	
METOL ACHLOR	51218-45-2	0.15				182	×I	230	1,5	13,000	15,000	×I	흱	
METRIRITIN	21087-64-9	0.025				95		1,200	1.5				367	
MONOCHLOROACETIC ACID	79-11-8	0.01 M				0.24	×I	858,000	17	13,000	14,900		189	
NAPHTHALENE	91-20-3	1		[0.00086]		950		30	3				218	0.98
NAPHTHYLAMINE, 1-	134-32-7		1.8 S		[1.8] S 0.00051	3,200		1,690	2				301	0.69
NAPHTHYLAMINE, 2-	91-59-8		1.8 C		[1.8] C 0.00051	87		6.4	9				306	0.69
NAPROPAMIDE	15299-99-7	0.1				880		02	2				399	
NITROANILINE, M-	99-09-2	[0.00005 [S] 71] [S] 0.0003	0.021 P	[0.000057 [S] 1] <u>0.001</u> P		18		100	3				306	
NITROANILINE, O-	88-74-4	88-74-4 [0.00005 [Hr 71] 0.003] P		[0.000057 [H]		27		1,200	9				284	
NITROANILINE, P-	100-01-6	100-01-6 71] 0.004 P	0.02 P	[0.000057 [S] 1] 0.006 P		15		800	2				332	
NITROBENZENE	98-95-3	98-95-3 [0.0005] 1		[H] [9000:0]	0.00004 <u>1</u>	130		2,000	2			×	211	0.64
NITROGUANIDINE	556-88-7	19				0.13		4,400	6				234	
NITROPHENOL, 2-	88-75-5	0.008		[0.008] [S]		37		2,100	1,2,3,4,5,6				215	9.01
NITROPHENOL, 4-	100-02-7	0.008 N		[0.008] [Nr		230		16,000	2	•			279	25.81
NITROPROPANE, 2-	79-46-9	79-46-9 [0.00571] [Ir]	[9.4] [Hr	[0.00571] 0.02	[9.4] H	20	×	16,700	1,3,4,5	13,000	14,900	×	120	0.69
NITROSODIETHYLAMINE, N-	55-18-5		150 1		[151] 0.043	26	×	93,000	10	13,000	14,900		176	0.69
NITROSODIMETHYLAMINE, N-	62-75-9	62-75-9 0.000008 P	51 1		[49] <u>0.014</u>	8.5	×	1,000,000	2	13,000	14,900		154	0.69
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3		5.4		[5.6] <u>0.016</u>	450		1,200	0,13			×	235	0.69
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[O] [360:0]	1 2	[0.095] [Dr	[7] 0.002 C	11		006'6	9			×	206	0.69

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TABLE 5 - PHYSICAL AND TOXICOLOGICAL PROPERTIES APPENDIX A

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NITROSODIPHENYLAMINE, N-	86-30-6	0.02 P	0.0049		[0.0091] C 0.0000026	580		35	1				269	3.72
NITROSO-N-ETHYLUREA, N-	759-73-9		[140] <u>27</u> [H]		[27] C 0.0077	2		13,000	6				[125] <u>223</u>	1,734.48
OCTYL PHTHALATE, DI-N-	117-84-0	[0.02] [H] 0.04 P		[0.02] [Hr	<u> </u>	980,000,000		က	5			×	234	0.69
OXAMYL (VYDATE)	23135-22-0			[0.025] [Ir]		7.1		280,000	2				[101] 334	
PARAQUAT	1910-42-5	0.0045 !				16,200		000'099	8'9				352	
PARATHION	56-38-2	н 900'0		[0.006] [Hr]		2,300		20	2,4,5,6,7			×	375	
PCB-1016 (AROCLOR)	12674-11-2 0.00007	-	[0.09] <u>0.07</u> [N]	[0.00007] [1r]	[0.09] [Nr 0.00002] [110,000		0.25	5			×	[340] 325	
PCB-1221 (AROCLOR)	11104-28-2		[8] 2 [8]		j [S] d	1,900		0.59	5			×	[340] 275	
PCB-1232 (AROCLOR)	11141-16-5		[0.5] <u>2</u> [S]		[8] [9.0] 0.00057	1,500		1.45	7			×	[340] 290	
PCB-1242 (AROCLOR)	53469-21-9		[0.5] <u>2</u> [N]		[0.5] [Nr 0.00057] <u>]</u>	48,000		0.1	5			×	[340] 325	
PCB-1248 (AROCLOR)	12672-29-6		[1.8] <u>2</u> [S]		[1.8] [S] 0.00057	190,000		0.054	7,9,11			×	340	
PCB-1254 (AROCLOR)	11097-69-1	0.00002	[1.8] <u>2</u> [N]	[0.00002] [1r]	[1.8] [Nr 0.00057] <u>[</u>	810,000		0.057	5			×	[340] 365	
PCB-1260 (AROCLOR)	11096-82-5		[0.6] <u>2</u> [N]		[0.6] [Nr 0.00057] !	1,800,000		0.08	5				385	
PEBULATE	1114-71-2	0.05 H				630	×	92	5	[13,000]	[14,900]	×	[142] 303	
PENTACHLOROBENZENE	608-93-5	0.0008		[0.0008] [1r]		32,000		0.74	1,5,6,7				277	0.37
PENTACHLOROETHANE	76-01-7		0.09 P			1,905	×I	88	1.3	13,100	15,100	×I	160	
PENTACHLORONITROBENZENE	82-68-8	0.003	0.26 H	[0.003] [1r]	[0.26] [Hr	7,900		0.44	4,6,8				328	0.36
PENTACHLOROPHENOL	87-86-5	0.03	0.12	[0.03] [1r]	[0.03] [Ir] [0.0000046 C	20,000		4	1,2,4,5				310	0.17

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T = TEF TE = TERA ITER Peer-Reviewed Value

N = EPA NCEA Provisional Value
P = EPA Provisional Peer-Reviewed Toxicity Value
[r = route-to-route extrapolation]
S = surrogate
T = Tee

TABLE 5 - PHYSICAL AND TOXICOLOGICAL PROPERTIES APPENDIX A

				2.000	A. CICAMO INECCEALED COECON									
Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m³)	[CSFi (mg/kg-d)-1] IUR (µg/m³) ⁻¹	Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
PHENACETIN	62-44-2		0.0022 C		[0.0022] 0.0000006 3	110		763	2,3,9				[200] 341	4.50
PHENANTHRENE	85-01-8	0.3 \$		[0.3] [Sr		38,000		1.1	1,4,5				341	0.63
PHENOL	108-95-2	[0.6] 0.3		[0.6] <u>0.2</u> [lr]		22	×	84,300	1,2,3,4	13,000	14,900	Σ	182	36.14
PHENYL MERCAPTAN	108-98-5	0.00001 H				295	×	653	5.9	13,000	15,000	×I	170	
PHENYLENEDIAMINE, M-	108-45-2	0.006		[0.006] [1r]		12		351,000	3				286	4.50
PHENYLPHENOL, 2-	90-43-7		[0.00194] H			5,700		700	5				280	18.07
PHORATE	298-02-2	0.0002 H		[0.0002] [Hr		810	[X]	50	2	[13,100]	[15,100]	×	[118] 319	
PHTHALIC ANHYDRIDE	85-44-9	2		[0.0343] [H] 0.02 C		62		6,170	2				285	13,490.40
PICLORAM	1918-02-1	0.07				15		430	2				373	
POLYCHLORINATED BIPHENYLS (AROCI ORS) (PCBS)	1336-36-3		2		[2] 0.00057			0.0505	10,13				360	
PROMETON	1610-18-0	0.015 !				346		750	2,5				347	
PRONAMIDE	23950-58-5	0.075		[0.075] [Ir]		200		15	2				321	
PROPANIL	709-98-8	0.005				160		225	2				355	
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0			5 Z		25	×I	1,000,000	2	13,000	14,900	×I	82	
PROPAZINE	139-40-2	0.02				155		9.8	1.5			×I	318	
PROPHAM	122-42-9	0.02				51		250	5				257	
PROPYLBENZENE, N-	103-65-1	0.04 N				720	×	52	9	13,100	15,100	×	[159.2] 159	
PROPYLENE OXIDE	75-56-9	75-56-9 [0.00 857] [ir]	0.24	[0.00857] 0.03	[0.013] 0.0000037	25	×	405,000	1	13,100	15,000	×	34	
PYRENE	129-00-0	0.03		[0.03] [11]		68,000		0.132	1				393	0.07
PYRIDINE	110-86-1	0.001		[0.001] [lr]		0.0066	×	1,000,000	2	13,100	15,000	×	115	18.07
QUINOLINE	91-22-5		[12] <u>3</u> [H]			1,300		000'09	1,3,5		[14,900]	×	[237.7] 238	12.65
QUIZALOFOP (ASSURE)	76578-14-8	0.009				580		0.3	2				220	
	121-82-4	0.003	0.1		0.0000031	21		59.9	1.9				353	

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APPENDIX A
TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES

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Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] <u>RfC</u> (mg/m ³)	[CSFi (mg/kg-d)-1] IUR (µg/m³) ⁻¹	Koc		Aqueous Sol (mg/L)	Aqueous Sol Reference	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
RESORCINOL	108-46-3	2正				2		717,000					280	
RONNEL	299-84-3	0.05 H				580		40	2				[151] 349	
SIMAZINE	122-34-9	0.005	0.12 H	[0.005] [1r]	[0.12] [Hr	110		2	5				225	
STRYCHNINE	57-24-9	0.0003		[0.0003] [lr]		280		143	9				270	4.50
STYRENE	100-42-5	0.2 1		[0.286] 1		910	×	300	5	13,100	15,100	×	145	1.20
TEBUTHIURON	34014-18-1	1 20.0				620		2,500	2				394	
TERBACIL	5902-51-2	0.013 1				53		710	2				396	
TERBUFOS	13071-79-9 0.000025	0.000025 H		[0.000025] [Hr		510	E	22	9	[13,000]	[15,000]	×	[69] 332	
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	0.0003		[0.0003] [1r]		1,800		0.583	1,5,6,7				245	0.69
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8-	1746-01-6 0.000000	0.000000 001 D	[150000] [H] 130000 C	0.0000000 D 4	[150000] [H]	4,300,000	0	0.0000193	9				412	0.21
TETRACHLOROETHANE, 1,1,1,2-	630-20-6		0.026	[0.03] [14]	[0.0259] 0.0000074	086	×	1100	1	13,000	14,600	×	[130.5] 131	3.79
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	[0.06] [N] 0.004 P	0.2 1	[0.06] [Nr	[0.203] 0.000058	62	×	2,860	2	13,100	15,100	×	147	0.56
TETRACHLOROETHYLENE (PCE)	127-18-4	0.01	0.052 N	[0.14] <u>0.5</u> N	[0.00203] 0.0000005 N	300	×	162	1,2,3,4,5	13,100	15,000	×	121	0.03
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	0.03		[0.03] [1r]		6,200		183	9				[150] 288	69.0
TETRAETHYL LEAD	78-00-2	78-00-2 0.000000 1		[0.000000 [Ir]		4,900		0.8	S.			×	[200] 202	4.50
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	0.0005		[0.0005] [lr]		550	×	25	2	[13,000]	[14,900]	×	[136] 349	
TETRAHYDROFURAN	109-99-9	0.2 N	0.0076 N	0.3 N	0.0000019 N	54	×I	300,000	1,6,7	13,100	15,100	×I	99	
THIOFANOX	39196-18-4	0.0003 H				0.022		5,200	6				280	
THIRAM	137-26-8	0.005		[11] [500:0]		1,000		8	4				[200] 339	
TOLUENE	108-88-3	108-88-3 [0.2] 0.08 I		[0.114] 5		130	×	532.4	1,2,3,4	13,100	15,000	×	111	9.01
TOLUIDINE, M-	108-44-1		[0.24] <u>0.18</u> S		[0.24] [Sr 0.000051] S	140		15,030	9			×	203	
TOLUIDINE, O-	95-53-4		[0.24] <u>0.18</u> [H]		[0.24] [Hr 0.000051] C	410		15,000	1,3,5			×	200	18.07
TOLUIDINE, P-	106-49-0		0.19 H		[0.19]]	320		7410	1,2,3				200	

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TOXAPHENE	8001-35-2	[0] [1000]	1.1.1	[0.001] [Dr	0.00032	1,500		6	2,4,5				432	
TRIALLATE	2303-17-5	0.013				2,000		4	5			×	[117] 343	
TRIBROMOMETHANE (BROMOFORM)	75-25-2	0.02	0.0079	[0.02] [14]	[0.00385] ₁	130	×	3,050	1,2,3,4	13,100	15,100	×	149	0.69
TRICHLORO-1,2,2-TRIFLUOROETHANE,	76-13-1	30 -		[8.57] <u>30</u> H		1,200	×	170	-	13,100	15,000	×	[47.7] 48	0.35
TRICHLOROBENZENE, 1,2,4-	120-82-1	0.01	0.0036 C	[0.0571] [H] 0.004 P		1,500		44.4	1,4,6,7			×	213	0.69
TRICHLOROBENZENE, 1,3,5-	108-70-3	0.006 M		[0.0571] S 0.004		3,100		5.8	5				208	
TRICHLOROETHANE, 1,1,1-	71-55-6	[0.28] <u>2</u> [N]		[0.63] <u>5</u>		100	×	1,495	1,4,5,6	13,100	15,000	×	74	0.05
TRICHLOROETHANE, 1,1,2-	79-00-5	0.004	0.057	[0.004] [1r]	[0.056] ₁	9/	×	4,420	1	13,100	15,100	×	114	0.03
TRICHLOROETHYLENE (TCE)	79-01-6	0.006 N	0.011 N	[0.143] <u>0.5</u> D	[0.00595] N 0.0000017	93	×	1,100	1	13,100	15,000	×	87	0.02
TRICHLOROPHENOL, 2,4,5-	95-95-4	0.1		[0.1] [H]		2,400		1,000	1,2,4				246	0.14
TRICHLOROPHENOL, 2,4,6-	88-06-2	[0.0003] [M] 0.001 P	0.011	[0.0003] [Mr	[0.01085] 0.0000031	1,100		850	1,2,4,5				246	0.14
TRICHLOROPHENOXYACETIC ACID, 2,4,5-(2,4,5-T)	93-76-5	0.01		[0.01] [Ir]		43		278	2,4,5				279	1.39
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	0.008		[0.008] [17]		1,700		140	2				[200] <u>353</u>	
TRICHLOROPROPANE, 1,1,2-	598-77-6	0.005				24	×	2,700	14	13,100	15,000	×	117	
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.006	H 2	[0.0014] N 0.005	[] []	280	×	1,896	1,4,6	13,100	15,100	×	157	0.35
TRICHLOROPROPENE, 1,2,3-	96-19-5	[0.005] [H] 0.01 P		0.001 P		190	×	2,700	4	13,100	15,000	×	142	
TRIETHYLAMINE	121-44-8			0.007		51	×I	25,000	14	13,100	15,100	×I	ଣ	
TRIFLURALIN	1582-09-8	0.0075 1	0.0077	[0.0075] [1r]	[0.0077] [1r]	720		4	2,5,6,7				[139] 382	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	0.05 [N]		[0.0017] [N] 0.007 P		2,200	×	26	1	13,100	15,000	×	169	4.50
TRIMETHYLBENZENE, 1,3,5-	108-67-8	0.05 N		[0.0017] [N] 0.006 P		099	×	48.9	1	13,100	15,100	×	[164.7] 165	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.0001 P	0.017 N				×I	1,800	2,3,5	13,000	15,000	×I	190	18.07
TRINITROTOLUENE, 2,4,6-	118-96-7	0.0005	0.03			1		100	2				240	

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T = TEF
TEF
TE = TERA ITER Peer-Reviewed Value

PENNSYLVANIA BULLETIN, VOL. 40, NO. 10, MARCH 6, 2010

TABLE 5 - PHYSICAL AND TOXICOLOGICAL PROPERTIES APPENDIX A

							I	I				I		
Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] RfC (mg/m ³]	[CSFi (mg/kg-d)-1] IUR (µg/m³)-1	Кос	Voc?	Aqueous Sol (mg/L)	Aqueous Aqueous Sol Sol (mg/L) Reference ¹	TF Vol from Surface Soil	TF Vol from (SubSurface Soil	Organic Liquid	Boiling Point degrees C)	Degradation Coefficient (K)(yr ⁻¹)
VINYL ACETATE	108-05-4	_ En		[0.0571] ₁		2.8	×	20,000	-	13,200	15,000	×	73	
VINYL BROMIDE (BROMOETHENE)	593-60-2	593-60-2 [0.00085 [Ir]]		[0.11] [Hr [0.000857] 0.003	[0.11] H 0.000032	150	×I	4,180	12	13,100	15,000	×I	[15.8] 16	0.09
VINYL CHLORIDE	75-01-4	0.003	[1.5] 0.72	[0.029] 0.1	[0.03] 0.0000044	10	×	2,700	1	13,200	15,000	×	-13	0.09
WARFARIN	81-81-2	81-81-2 0.0003 1		[0.0003] [1r]		910		17	4				356	4.50
XYLENES (TOTAL)	1330-20-7	[2] 0.2		[0.12] <u>0.1</u> [D]		350	×	175	13	13,100	15,000	×	140	0.69
ZINEB	12122-67-7	0.05				19		10	4				474	

'Aqueous solubility references are keyed to the numbered list found at 250.304(f). Where there are multiple sources cited, the table value is the median of the values in the individual references.

Toxicity Value Sources:
C = California EPA Cancer Potency Factor
D = ATSDR Minimal Risk Level
H = Health Effects Assessment Summary Table (HEAST)
I = Integrated Risk information System (IRIS)
M = EPA Drinking Water Regulations and Health Advisories

N = EPA NCEA Provisional Value
P = EPA Provisional Peer-Reviewed Toxicity Value
[r = route-to-route extrapolation]
S = surrogate

T = TEF TE = TERA ITER Peer-Reviewed Value

APPENDIX A Table 5 – Physical and Toxicological Properties B. Inorganic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) ⁻¹	[RfDi (mg/kg-d)] <u>RfC</u> (mg/m³)- ¹	[CSFi (mg/kg-d) ⁻¹] IUR (µg/m³)- ¹	Kd
ALUMINUM	7429-90-5	1 [N]		[0.001] [N] 0.005 P		9.9
ANTIMONY	7440-36-0	0.0004 I		[0.0004] [ir]		45
ARSENIC	7440-38-2	0.0003 I	1.5 I	[0.0003] [lr] 0.000015 C	[15] 0.0043	29
BARIUM AND COMPOUNDS	7440-39-3	[0.07] <u>0.2</u>		[0.0001] 0.0005		41
BERYLLIUM	7440-41-7	0.002 l		[0.00000571] <u>0.00002</u> [ir] <u>l</u>	[8.4] <u>0.0024</u>	790
BORON AND COMPOUNDS	7440-42-8	[0.09] <u>0.2</u>		[0.0057] <u>0.02</u> H		3
CADMIUM	7440-43-9	0.0005 I	[0.38] [C]	[0.0005] [lr] <u>0.00001</u> D	[6.3] 0.0018	75
CHROMIUM III	16065-83-1	1.5 l				1,800,000
CHROMIUM VI	18540-29-9	0.003		[0.00003] 0.00008	[42] <u>0.084</u>	19
COBALT	7440-48-4	[0.02] <u>0.0003</u> [N] P		[0.0000057] [D] 0.000006 P	<u>0.009</u> P	<u>45</u>
COPPER	7440-50-8	[0.0371] <u>0.037</u> H				[360] <u>430</u>
CYANIDE, FREE	57-12-5	0.02		[0.02] [lr]		9.9
<u>FLUORIDE</u>	<u>16984-48-8</u>	<u>0.04</u> C		<u>0.013</u> <u>C</u>		
IRON	7439-89-6	[0.3] <u>0.7</u> [N] P		[0.3] [Nr]		<u>25</u>
LEAD	7439-92-1		0.0085 C		[0.042] C 0.000012	[890] <u>900</u>
<u>LITHIUM</u>	7439-93-2	<u>0.002</u> P				300
MANGANESE	7439-96-5	[0.14] <u>0.047</u>		[0.0000143] 0.00005		<u>65</u>
MERCURY	7439-97-6	[0.0003][M] 0.00016 C		[0.000086] 0.0003		52
MOLYBDENUM	7439-98-7	<u>0.005</u> <u>l</u>				20
NICKEL	7440-02-0	0.02		[0.000057] 0.00009	[0.84] 0.00024 ls	65
NITRATE NITROGEN	14797-55-8	<u>1.6</u> <u>l</u>				
NITRITE NITROGEN	<u>14797-65-0</u>					
PERCHLORATE	7790-98-9	<u>0.0007</u> <u>I</u>				<u> </u>
SELENIUM	7782-49-2	0.005 I		[0.005] <u>0.02</u> [lr]		5
SILVER	7440-22-4	0.005 I		[0.005] [lr]		8.3
THALLIUM	7440-28-0	0.00007 I		[0.00007] [lr]		71
TIN	7440-31-5	0.6 H		[0.6] [Hr]		<u>250</u>
VANADIUM	7440-62-2			[0.000057] [D]		1,000
ZINC	7440-66-6	0.3 I		[0.3] [lr]		62

Toxicity Value Sources:

C = California EPA Cancer Potency Factor

D = ATSDR Minimal Risk Level

H = Health Effects Assessment Summary Table (HEAST)

I = Integrated Risk Information System (IRIS)

[N = EPA NCEA Provisional Values]

P = EPA Provisional Peer-Reviewed Toxicity Value

[r = route-to-route extrapolation]

s = surrogate

[M = EPA Drinking Water Regulations and Health Advisories]

APPENDIX A
Table 6 - Threshold of Regulation Compounds

		ALL AQUIFER	Residential Soil		dential Soil SCs	Soil to
REGULATED SUBSTANCE	CASRN	GROUNDWATER MSC (μg/L)	MSC (mg/kg) 0-15 feet	Surface Soil (mg/kg) 0-2 feet	Subsurface Soil (mg/kg) 2-15 feet	Groundwater (mg/kg)
ACETIC ACID	64-19-7	5	100	100	100	0.5
ACETIC ANHYDRIDE	108-24-7	5	100	100	100	0.5
AMYL ACETATE, N-	628-63-7	5	100	100	100	0.5
AMYL ACETATE, NEC-	626-38-0	5	100	100	100	0.5
ANTU (ALPHA-NAPHTHYLTHIOUREA)	86-88-4	5	100	100	100	0.5
AZINPHOS-METHYL (GUTHION)	86-50-0	5	100	100	100	0.5
· ·	[57-57-8]	[5]	[100]	[100]	[100]	[0.5]
[BETA PROPIOLACTONE]	319-86-8	<u>5</u>	100	100	100	0.5
BHC, DELTA	111-91-1	5	100	100	100	0.5
BIS(2-CHLOROETHOXY)METHANE		5	100	100	100	0.5
BROMOPHENYL PHENYL ETHER, 4-	101-55-3 123-86-4	5	100	100	100	0.5
BUTYL ACETATE, N-	123-86-4	5	100	100	100	0.5
BUTYL ACETATE, SEC-		5	100	100	100	0.5
BUTYL ACETATE, TERT-	540-88-5	5	100	100	100	0.5
BUTYLAMINE, N-	109-73-9		100	100	100	0.5
CALCIUM CHROMATE	13765-19-0		100	100	100	0.5
CALCIUM CYANAMIDE	156-62-7	5	100	100	100	0.5
CARBONYL FLUORIDE	353-50-4	5	100	100	100	0.5
CATECHOL	120-80-9	5		100	100	0.5
CHLOROACETALDEHYDE	107-20-0	5	100	100	100	0.5
CHLOROETHYL VINYL ETHER, 2-	110-75-8		100		100	
CHLOROPHENYL PHENYL ETHER, 4-	7005-72-3	5	100	100	[100]	0.5
[CYCLOHEXANE]	[10-82-7]	[5]	[100]	[100]		[0.5]
DECABORANE	17702-41-9		100	100	100	0.5
[DIBENZOFURAN]	[132-64-9]	[5]	[100]	[100]	[100]	[0.5]
[DICHLORO-2-BUTENE, TRANS-1,3-]	[110-57-6]	[5]	[100]	[100]	[100]	[0.5]
DIETHANOLAMINE	111-42-2	5	100	100	100	0.5
DIETHYLAMINE	109-89-7	5	100	100	100	0.5
DIGLYCIDYL ETHER (DGE)	7/5/2238	5	100	100	100	0.5
DIMETHYL PHTHALATE	131-11-3	5	100	100	100	0.5
DIMETHYL SULFATE	77-78-1	5	100	100	100	0.5
DIMETHYLPHENETHYLAMINE, ALPHA, ALPHA-	122-09-8	5	100	100	100	0.5
[DINITRO-O-CRESOL, 4,6-]	[534-52-1]	[5]	[100]	[100]	[100]	[0.5]
DIOXATHION	78-34-2	5	100	100	100	0.5
ETHYL METHANESULFONATE	62-50-0	5	100	100	100	0.5
ETHYLAMINE	75-04-7	5	100	100	100	0.5
ETHYLENE CHLORHYDRIN	107-07-3	5	100	100	100	0.5
FAMPHUR	52-85-7	5	100	100	100	0.5
FENSULFOTHION	115-90-2	5	100	100	100	0.5
HEXACHLOROPROPENE	1888-71-7		100	100	100	0.5
[HEXANONE, 2- (METHYL N-BUTYL KETONE)]	[591-78-6]	[5]	[100]	[100]	[100]	[0.5]
IODOMETHANE	74-88-4	5	100	100	100	0.5
ISOAMYL ACETATE	123-92-2	5	100	100	100	0.5
ISOBUTYL ACETATE	110-19-0	5	100	100	100	0.5
ISODRIN	465-73-6	5	100	100	100	0.5

The value in the table is 100 times the groundwater MSC. The option to use the SPLP is also available to calculate the soil to groundwater numeric value (See Section 250.310)

APPENDIX A

Table 6 - Threshold of Regulation Compounds

		ALL AQUIFER	Residential Soil		dential Soil SCs	Soil to
REGULATED SUBSTANCE	CASRN	GROUNDWATER MSC (µg/L)	MSC (mg/kg) 0-15 feet	Surface Soil (mg/kg) 0-2 feet	Subsurface Soil (mg/kg) 2-15 feet	Groundwater (mg/kg)
ISOPHORONE DIISOCYANATE	4098-71-9	5	100	100	100	0.5
ISOSAFROLE	120-58-1	5	100	100	100	0.5 0.5
[LITHIUM]	7439-93-2	[5]	[100]	[100]	[100]	[0.5]
LITHIUM HYDRIDE	7580-67-8	5	100	100	100	0.5
MANGANESE CYCLOPENTADIENYL	12079-65-1	5	100	100	100	0.5
TRICARBONYL	12079-03-1		100	100	100	0.5
METHYL HYDRAZINE	60-34-4	5	100	100	100	0.5
METHYL ISOAMYL KETONE	110-12-3	5	100	100	100	0.5
METHYL ISOCYANATE	624-83-9	5	100	100	100	0.5
METHYL MERCAPTAN	74-93-1	5	100	100	100	0.5
METHYLAMINE	74-89-5	5	100	100	100	0.5
[METHYLCHLOROPHENOXYACETIC ACID (MCPA)]	[94-74-9]	[5]	[100]	[100]	[100]	[0.5]
MEVINPHOS	7786-34-7	5	100	100	100	0.5
MONOCROTOPHOS	6923-22-4	5	100	100	100	0.5
NAPHTHOQUINONE, 1,4-	130-15-4	5	100	100	100	0.5
NITRIC ACID	7697-37-2	5	100	100	100	0.5
NITROQUINOLINE-1-OXIDE, 4-	56-57-5	- 5	100	100	100	0.5
OSMIUM TETROXIDE	20816-12-0	5	100	100	100	0.5
PENTABORANE	19624-22-7	5	100	100	100	0.5
PENTACHLOROETHANE	76-01-7	5	100	100	100	0.5
PERCHLOROMETHYL MERCAPTAN	594-42-3	5	100	100	100	0.5
[PHENYL MERCAPTAN]	[108-98-5]	[5]	[100]	[100]	[100]	[0.5]
PICOLINE, 2-	109-06-8	5	100	100	100	0.5
PROPANOL, 1-	71-23-8	5	100	100	100	0.5
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	5	100	100	100	0.5
PROPIONIC ACID	79-09-4	5	100	100	100	0.5
PROPIONITRILE (ETHYL CYANIDE)	107-12-0	5	100	100	100	0.5
PROPYLENE IMINE	75-55-8	5	100	100	100	0.5
PYRETHRUM	8003-34-7	5	100	100	100	0.5
QUINONE (p-BENZOQUINONE)	106-51-4	5	100	100	100	0.5
[RESORCINOL]	[108-46-3]	[5]	[100]	[100]	[100]	[0.5]
SELENIUM HEXAFLUORIDE	7783-79-1	5	100	100	100	0.5
SODIUM BISULFITE	7631-90-5	5	100	100	100	0.5
SULFIDE	18496-25-8		100	100	100	0.5
SULFUR MONOCHLORIDE	10025-67-9		100	100	100	0.5
SULFURIC ACID	7664-93-9	5	100	100	100	0.5
TELLURIUM	13494-80-9		100	100	100	0.5
TELLURIUM HEXAFLUORIDE	7783-80-4	5	100	100	100	0.5
TEPP (TETRAETHYL PYROPHOSPHATE)	107-49-3	5	100	100	100	0.5
[TETRAHYDROFURAN]	[109-99-9]	[5]	[100]	[100]	[100]	[0.5]
TETRANITROMETHANE	509-14-8	5	100	100	100	0.5
THIONAZIN	297-97-2	5	100	100	100	0.5
[TRIETHYLAMINE]	[121-44-8]	[5]	[100]	[100]	[100]	[0.5]
TRIETHYLPHOSPHOROTHIOATE, 0,0,0-	126-68-1	5	100	100	100	0.5
[TRINITROGLYCEROL (NITROGLYCERIN)]	[55-63-0]	[5]	[100]	[100]	[100]	[0.5]

The value in the table is 100 times the groundwater MSC. The option to use the SPLP is also available to calculate the soil to groundwater numeric value (See Section 250.310)

DEFAULT VALUES FOR CALCUL		SPECIFIC CONCENTI	RATIONS FOR LEAD
•	Values Used in UBK or residential exposu		
Geometric Standard Deviation (GSD)	1.42 (default)	Drinking water intake	Model default
Outdoor air lead concentration	0.2 μg/m ³ (default)	Soil lead level	495 μg/g
Indoor air lead concentration (% of outdoor)	30	Indoor dust lead level	495 μg/g
Time spent outdoors	Model default	Soil/dust ingestion weighting factor (%)	45
Ventilation rate	Model default	Paint lead intake	Model default
Lung absorption	Model default	Maternal contribution method	Infant model
Dietary lead intake	Model default	Mother's blood lead at birth	7.5 μg/dL blood (model default)
GI method/bioavailability	Non-linear	Target blood lead level	10 μg/dL blood
Lead concentration in drinking water	4.00 μg/L (default)		

Input Values Used in SEGI (for nonresidential exposu	H Equation re scenario)
Concentration of lead in soil (S)	987 μg/g
Target blood lead level in adults (T)	20 μg/dL blood
Geometric standard deviation of blood lead distribution (G)	1.4
Baseline blood lead level in target population (B)	4 μg/dL blood
Number of standard deviations corresponding to degree of protection required for the target population (n)	1.645 (for 95% of population)
Slope of blood lead to soil lead relationship (δ)	7.5 μg/dL blood per μg/g soil

REFERENCE

WIXSON, B.G. (1991). The Society for Environmental Geochemistry and Health (SEGH) Task Force Approach to the Assessment of Lead in Soil. <u>Trace Substances in Environmental Health</u>. 11-20.

TABLE 8 CONSTITUENTS OF POTENTIAL ECOLOGICAL CONCERN

METALS

ORGANICS cont'd

Arsenic III Arsenic V Barium Beryllium Cadmium Chromium III Chromium VI Cobalt Copper Iron Lead Manganese Mercury, inorganic Mercury, methyl Molybdenum Nickel Selenium Vanadium Zinc

ORGANICS

Acenaphthene
Aldrin *
Benzene
Benzo(a)pyrene
Biphenyl
Bis(2-ethylhexyl)phthalate
Bromophenyl phenyl ether,4-

Cyanide

Chlordane *
Chlorobenzene
DDT (and metabolites)
Diazinon

Butylbenzyl phthalate

Diazinon
Dibenzofuran
Dichlorobenzene,1,1-

Dichlorobenzene,1,2-Dichlorobenzene,1,3-Dichlorobenzene,1,4-Dieldrin

Diethyl phthalate Di-n-butyl phthalate

Endosulfan (mixed isomers)

Endosulfan, alpha Endosulfan, beta Endrin Ethylbenzene Fluoranthene Fluorene

Heptachlor Hexachloroethane

Hexachlorocyclohexane (Lindane)

Kepone *
Malathion
Methoxychlor
Mirex *
Naphthalene

Pentachlorobenzene Pentachlorophenol

Polynuclear aromatic hydrocarbons Polychlorinated biphenyls (PCB)

Phenanthrene Pyrene

Tetrachloroethane,1,1,2,2-Tetrachloroethylene Tetrachloromethane

Toluene
Toxaphene
Tribromomethane
Trichlorobenzene,1,2,4Trichloroethane,1,1,1Trichloroethylene

Xylenes

11/24/2001