

North Carolina Department of Environmental Quality
Preliminary Soil Remediation Goals (PSRGs)

July 2023

(based on May 2023 USEPA Regional Screening Tables)

These notes must be used with the PSRG Table

Please contact the appropriate remediation program within DEQ if you have a contaminant not listed on the PSRG Table.

General Notes:

1. PSRGs are obtained using the USEPA Regional Screening Level (RSL) table. If a contaminant does not have a PSRG listed, then one or more of the contaminant-specific parameters are not available from the RSL table to calculate a soil PSRG (these contaminants are only included in the PSRG table to account for all entries on the RSL table). If a 15A NCAC 02L Standard (2L Standard) or Interim Maximum Allowable Concentration (IMAC) is available for a contaminant with no PSRGs, protection of groundwater evaluation is still necessary. Leaching tests should be performed by an analytical laboratory to determine whether this contaminant is leaching to groundwater above its 2L Standard or IMAC, or another method may be allowed by the state program providing oversight.
2. The **health-based PSRGs** (Residential and Industrial/Commercial) are based upon human health risk and do not address potential ecological risk. The PSRGs listed are the lower of:
 - a. the carcinogenic target risk of 1.0E-06 (C), or
 - b. the non-carcinogenic target hazard quotient of 0.2 (N).

Residential health-based PSRGs should be used to identify site contaminants and delineate their extent.

3. The **protection of groundwater PSRGs** are provided as a conservative indicator of soil leachability and are developed using a USEPA soil leaching model with conservative assumptions and default values appropriate for North Carolina (see **Equation 1** on page 6). Check remedial program guidance or the *Technical Guidance for Risk-Based Environmental Remediation of Sites* published on the NCDEQ Risk-Based Remediation website for alternative methods to further characterize site-specific soil leachability if soil concentrations exceed protection of groundwater PSRGs. The target groundwater concentration used in the equation is either:
 - a. **2L or IMAC** – a 2L Standard or IMAC,
 - b. **Calculated** – For contaminants with no 2L Standard or IMAC, a target groundwater concentration is calculated (where risk assessment parameters are available) using the procedures and references in 15A NCAC 02L.0202 (see **Equation 2** on page 7). The calculated groundwater concentration is then used in **Equation 1**. Check with the appropriate remedial program guidance to ensure applicability of a calculated groundwater concentration prior to use. *Use of these calculated soil-to-groundwater PSRGs in no way exempts compliance from the 2L Standards, IMACs, or risk-based alternate standards where approved by applicable remediation program for groundwater, including the use of the Practical Quantitation Limit (PQL) where no numeric standard currently exists.*

4. If more than five contaminants with non-carcinogenic effects are detected at a site, including those where a lab reporting limit is greater than a PSRG, use the DEQ *Risk Calculator* to determine if the allowable human health risk is exceeded, or contact the appropriate remediation program within DEQ for additional guidance.
5. If one or more PSRGs are exceeded at a site, enter the data into the *Risk Calculator* to determine the cumulative human health risk of all contaminants and calculate site-specific cleanup levels. Site-specific calculated cleanup levels are typically less conservative than the generic PSRGs and are based on the upper end of USEPA's allowed risk range:
 - a. the cumulative carcinogenic target risk of 1.0E-04, or
 - b. cumulative Hazard Index of 1.0 for noncarcinogens.

Refer to the DEQ *Risk Calculator User Guide* and the *Technical Guidance for Risk-Based Environmental Remediation of Sites* available at the DEQ risk-based remediation website or contact the appropriate remediation program for assistance.

6. For some low-toxicity chemicals, it is acknowledged that the calculated PSRG is greater than 100% of the soil medium, which is physically impossible. However, these PSRGs are a risk-based concentration that can be used to calculate cumulative risk using the Risk Calculator or adjust the PSRG based on the number of contaminants.

Compound-Specific Notes:

1. **Cadmium:** Compare soil results with the Cadmium (Diet) PSRG.
2. **Chromium:** USEPA does not provide an RSL for Total Chromium (Cr). Non-speciated Total Cr results must be compared to the Cr (VI) PSRG. Speciated results for Cr (III) and Cr (VI) should be compared to the corresponding PSRG. Cr levels that have been demonstrated to be the result of natural background concentrations do not require screening.
3. **Cyanide:** Analyze for total cyanide and compare the results to the lowest PSRG for a cyanide species on the table (unless analyses for both total cyanide and specific species are available to demonstrate all of the cyanide is of one particular species).
4. **Dioxins and Furans:** Multiply the individual dioxin and furan isomer concentrations by their associated toxicity equivalency factor (TEF) shown in the table below. Sum the adjusted concentrations of all dioxins and furans and compare the result to the 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) PSRG.

CASRN	Dioxins and Furans	TEF
Chlorinated dibenzo-p-dioxins		
1746-01-6	2,3,7,8-TCDD	1
40321-76-4	1,2,3,7,8-PeCDD	1
39227-28-6	1,2,3,4,7,8-HxCDD	0.1
57653-85-7	1,2,3,6,7,8-HxCDD	0.1
57653-85-7	1,2,3,7,8,9-HxCDD	0.1
35822-46-9	1,2,3,4,6,7,8-HpCDD	0.01
3268-87-9	OCDD	0.0003

CASRN	Dioxins and Furans	TEF
Chlorinated dibenzofurans		
51207-31-9	2,3,7,8-TCDF	0.1
57117-41-6	1,2,3,7,8-PeCDF	0.03
57117-31-4	2,3,4,7,8-PeCDF	0.3
70648-26-9	1,2,3,4,7,8-HxCDF	0.1
57117-44-9	1,2,3,6,7,8-HxCDF	0.1
72918-21-9	1,2,3,7,8,9-HxCDF	0.1
60851-34-5	2,3,4,6,7,8-HxCDF	0.1
35822-46-9	1,2,3,4,6,7,8-HpCDF	0.01
55673-89-7	1,2,3,4,7,8,9-HpCDF	0.01
39001-02-0	OCDF	0.0003

5. Lead Compounds:

- a. **Residential soil exposure:** The PSRG for direct residential contact is 400 mg/kg where it has been demonstrated the lead contribution from untreated well water is less than 5 ug/l.
 - b. **Combination of residential soil AND water exposure:** The PSRG is 250 mg/kg for a residential scenario if there are untested drinking water wells in use that are located in the area of lead contamination, or if the wells have been tested and the untreated lead concentration in well water is greater than 5 ug/l.
 - c. **Industrial/commercial soil exposure:** The PSRG is 800 mg/kg for an industrial/commercial land use.
6. **Manganese:** USEPA provides RSLs for both diet and non-diet. Use the non-diet PSRG for comparison, which excludes the dietary contribution from the normal US diet.
 7. **Mercury:** Unless it is known what species of mercury is present at the site, use the ‘Mercuric Chloride (and other Mercury salts)’ PSRG. If methyl mercury formation or mercury vapor inhalation is likely, contact DEQ for further guidance.
 8. **Nickel:** Unless the release occurred in the last six months and it is clearly known which species of this metal was released, the PSRG for "soluble salt" should be used.
 9. **PCBs:** PSRGs are provided for the 12 dioxin-like PCB congeners. Total the remaining 197 congener concentrations and compare the sum to the “PCBs (high risk)” PSRG. Aroclor PSRGs should only be used for gross screening and with approval from the appropriate remediation program within DEQ.
 10. **Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA):** Protection of groundwater PSRGs are provided only for the PFAS compounds where final EPA Health Advisory Levels (HALs) exist or where toxicity data are available to calculate a screening level. PFBS is currently the only chemical with both. PFOS and PFOA currently have EPA proposed Maximum Contaminant Levels. Therefore, if PFOS or PFOA are detected in soil, potentially affected drinking water supplies nearby should be tested for PFAS. See the following PFAS groupings table to help understand the species. Typically, environmental contamination is associated with the acid species.

Relation of PFAS species in the PSRG Table

	CAS No.	Analyte	Chemical Form
GenX Chemicals	62037-80-3	~Ammonium perfluoro-2-methyl-3-oxahexanoate	Ammonium Salt
	13252-13-6	~Hexafluoropropylene oxide dimer acid (HFPO-DA)	Acid
PFBA	10495-86-0	~Ammonium perfluorobutanoate	Ammonium Salt
	2966-54-3	~Potassium heptafluorobutanoate	Potassium Salt
	2218-54-4	~Sodium perfluorobutanoate	Sodium Salt
	45048-62-2	~Perfluorobutanoate	Anion
	375-22-4	~Perfluorobutanoic acid (PFBA)	Acid
PFBS	29420-49-3	~Potassium perfluorobutanesulfonate	Potassium Salt
	45187-15-3	~Perfluorobutanesulfonate	Anion
	375-73-5	~Perfluorobutanesulfonic acid (PFBS)	Acid
PFHxA	21615-47-4	~Ammonium perfluorohexanoate	Ammonium Salt
	2923-26-4	~Sodium perfluorohexanoate	Sodium Salt
	92612-52-7	~Perfluorohexanoate	Anion
	307-24-4	~Perfluorohexanoic acid (PFHxA)	Acid
PFHxS	108427-53-8	~Perfluorohexanesulfonate	Anion
	355-46-4	~Perfluorohexanesulfonic acid (PFHxS)	Acid
PFOA	45285-51-6	~Perfluorooctanoate	Anion
	335-67-1	~Perfluorooctanoic acid (PFOA)	Acid
PFOS	2795-39-3	~Potassium perfluorooctanesulfonate	Potassium Salt
	45298-90-6	~Perfluorooctanesulfonate	Anion
	1763-23-1	~Perfluorooctanesulfonic acid (PFOS)	Acid
PFNA	72007-68-2	~Perfluorononanoate	Anion
	375-95-1	~Perfluorononanoic acid (PFNA)	Acid

11. **Thallium:** Unless the release occurred in the last six months and it is clearly known which species of this metal was released, the PSRG for "soluble salt" should be used.
12. **Total Petroleum Hydrocarbons (TPH):** TPH is a term intended to refer to the total mass of hydrocarbons present without identifying individual compounds. Because TPH is not a consistent entity, the assessment of health effects and development of toxicity values for mixtures of hydrocarbons are problematic. Therefore, the individual chemical constituents should be analyzed for risk assessment rather than rely on TPH data. In fact, most of the carcinogens in the TPH carbon range are individually listed on the PSRG table. Combining TPH and individual constituent cancer risks would be overly protective.

To better understand the TPH screening levels in the PSRG Table, the associated carbon ranges and 2L Standards are provided below. More information on USEPA's RSLs for TPH can be found here: <https://www.epa.gov/risk/regional-screening-levels-frequent-questions#FQ51>

Protection of groundwater PSRGs are only provided for the TPH carbon ranges that have both an EPA RSL and a NC 2L Groundwater Standard – Aliphatic Low and Aliphatic Medium. See table below for a comparison of the carbon ranges.

EPA Designation for TPH	Associated Carbon Range (per EPA RSL FAQs)	Associated Carbon Range with NC 2L Groundwater Standard Calculation	NC 2L Groundwater Standard (mg/L)
Aliphatic Low	C5-C8	C5-C8	0.4
Aliphatic Medium	C9-C18	C9-C18	0.7
Aliphatic High	C19-C32	C19-C36	10
Aromatic Low	C6-C8	NA	NA
Aromatic Medium	C9-C10	C9-C22	0.2
Aromatic High	C10-C32	NA	NA

NA - not available

Equations Used to Calculate the Protection of Groundwater PSRG

Equation 1 calculates a target soil concentration that serves as a leachability screening level. (from USEPA soil to groundwater RSL calculation):

$$C_{soil} = C_{gw} \left[k_s + \frac{(\theta_w + \theta_a H')}{P_b} \right] df$$

	Parameters	Default Values	Units
C_{soil}	Calculated Source Concentration for soil	not applicable	mg/kg - soil
C_{gw}	Applicable Groundwater Target Concentration: 15A NCAC 02L Standard	02L standard or IMACs	mg/L - water
df	Dilution factor	20 (0.5-acre source area) ¹	unitless
k_s	Soil-water partition coefficient for organic constituents $k_s = k_{oc} \times f_{oc}$ for inorganic constituents $k_s = k_d$	Calculated from k_{oc} and f_{oc} , or K_d	L/kg
k_{oc}	Soil organic carbon-water partition coefficient	contaminant-specific ²	L/kg
f_{oc}	Fraction of organic carbon in subsurface vadose soils	0.002 (0.2%) ³	kg/kg
k_d	Soil-water partition coefficient for inorganics	contaminant-specific ² (pH=5.5)	L/kg
θ_w	Water-filled soil porosity-vadose soils	0.3 ³	L _{water} /L _{soil}
θ_a	Air-filled soil porosity-vadose soils	0.13 ³	L _{air} /L _{soil}
P_b	Dry bulk density	1.5 ³	kg/L
H'	Henry's Law constant-dimensionless where: $H' = \text{Henry's Law constant (atm- m}^3/\text{mole)} \times \text{conversion factor of 41}$	contaminant-specific ²	unitless

1 - USEPA default value from USEPA 1996 Soil Screening Guidance

2 - USEPA value from the RS contaminant-specific parameter supporting table:

<https://semspub.epa.gov/work/HQ/199954.pdf>

3 - DEQ default value appropriate for North Carolina

Equation 2 calculates a target groundwater concentration that can be used in Equation 1 when no 2L standard or IMAC is available (based on 15A NCAC 02L .0202 methodology). C_{gw} in Equation 1 becomes the lower of the following calculated groundwater concentrations:

$$C_{gw}(C) = (TCR \times BW) / (CSFo \times IR)$$

$$C_{gw}(N) = (THQ \times RfDo \times BW \times RSC) / (IR)$$

Symbol	Parameter	Default Values	Units
$C_{gw}(C)$	Calculated groundwater concentration based on carcinogenic risk	Calculated	mg/L
$C_{gw}(N)$	Calculated groundwater concentration based on non-carcinogenic risk	Calculated	mg/L
TCR	Target cancer risk	1.0E-06	unitless
THQ	Target hazard quotient	1.0	unitless
RfDo	Oral reference dose	Contaminant-specific	mg/kg-day
CSFo	Oral cancer Slope Factor	Contaminant-specific	(mg/kg-day) ⁻¹
BW	Body weight	70	kg
IR	Ingestion Rate	2	L/day
RSC	Relative source contribution	0.1 for inorganics and 0.2 for organics	unitless

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
30560-19-1	Acephate	3.8E+00	N	4.9E+01	N	9.2E-03	Calculated	Yes
75-07-0	Acetaldehyde	1.2E+01	C	5.2E+01	C			Yes
34256-82-1	Acetochlor	2.5E+02	N	3.3E+03	N	1.6E+00	2L or IMAC	Yes
67-64-1	Acetone	1.4E+04	N	2.1E+05	N	2.5E+01	2L or IMAC	Yes
75-86-5	Acetone Cyanohydrin	2.5E+07	N	1.0E+08	N			Yes
75-05-8	Acetonitrile	1.7E+02	N	7.3E+02	N			Yes
98-86-2	Acetophenone	1.6E+03	N	2.3E+04	N	4.3E+00	2L or IMAC	Yes
53-96-3	Acetylaminofluorene, 2-	1.4E-01	C	6.0E-01	C	8.5E-04	Calculated	
107-02-8	Acrolein	3.1E-02	N	1.3E-01	N	1.6E-02	2L or IMAC	Yes
79-06-1	Acrylamide	2.4E-01	C	4.6E+00	C	3.4E-05	2L or IMAC	Yes
79-10-7	Acrylic Acid	4.2E+00	N	1.8E+01	N	1.4E+01	Calculated	Yes
107-13-1	Acrylonitrile	2.7E-01	C	1.2E+00	C	2.8E-04	Calculated	Yes
111-69-3	Adiponitrile	7.4E+07	N	3.1E+08	N			Yes
15972-60-8	Alachlor	9.7E+00	C	4.1E+01	C	3.3E-02	2L or IMAC	Yes
116-06-3	Aldicarb	1.3E+01	N	1.6E+02	N	3.5E-02	Calculated	Yes
1646-88-4	Aldicarb Sulfone	1.3E+01	N	1.6E+02	N	3.1E-02	Calculated	Yes
1646-87-3	Aldicarb sulfoxide							
309-00-2	Aldrin	3.9E-02	C	1.8E-01	C	6.6E-03	2L or IMAC	Yes
107-18-6	Allyl Alcohol	7.5E-01	N	3.2E+00	N	1.1E-01	Calculated	Yes
107-05-1	Allyl Chloride	3.5E-01	N	1.5E+00	N	1.1E-02	Calculated	Yes
7429-90-5	Aluminum	1.6E+04	N	2.3E+05	N	1.1E+05	Calculated	Yes
20859-73-8	Aluminum Phosphide	6.3E+00	N	9.3E+01	N			Yes
834-12-8	Ametryn	1.1E+02	N	1.5E+03	N	1.3E+00	Calculated	Yes
92-67-1	Aminobiphenyl, 4-	2.6E-02	C	1.1E-01	C	1.7E-04	Calculated	
591-27-5	Aminophenol, m-	1.0E+03	N	1.3E+04	N	4.3E+00	Calculated	Yes
95-55-6	Aminophenol, o-	5.1E+01	N	6.6E+02	N	2.2E-01	Calculated	Yes
123-30-8	Aminophenol, p-	2.5E+02	N	3.3E+03	N	1.1E+00	Calculated	Yes
33089-61-1	Amitraz	3.2E+01	N	4.1E+02	N	1.8E+02	Calculated	Yes
7664-41-7	Ammonia							
131-74-8	Ammonium Picrate	2.5E+01	N	3.3E+02	N	1.3E+00	Calculated	Yes
7773-06-0	Ammonium Sulfamate	3.1E+03	N	4.7E+04	N			Yes
75-85-4	Amyl Alcohol, tert-	1.7E+01	N	7.3E+01	N			Yes
62-53-3	Aniline	8.8E+01	N	4.0E+02	C	4.2E-02	Calculated	Yes
84-65-1	Anthraquinone, 9,10-	1.4E+01	C	5.7E+01	C	1.8E-01	Calculated	Yes
7440-36-0	Antimony (metallic)	6.3E+00	N	9.3E+01	N	9.0E-01	2L or IMAC	Yes
1314-60-9	Antimony Pentoxide	7.8E+00	N	1.2E+02	N			Yes
1332-81-6	Antimony Tetroxide	6.3E+00	N	9.3E+01	N			Yes
1309-64-4	Antimony Trioxide	2.5E+06	N	1.0E+07	N			Yes
7440-38-2	Arsenic, Inorganic	6.8E-01	C	3.0E+00	C	5.8E+00	2L or IMAC	Yes
7784-42-1	Arsine	5.5E-02	N	8.2E-01	N			Yes
1332-21-4	Asbestos (units in fibers)							
3337-71-1	Asulam	4.6E+03	N	5.9E+04	N	1.3E+01	Calculated	Yes
1912-24-9	Atrazine	2.4E+00	C	1.0E+01	C	3.9E-02	2L or IMAC	Yes
492-80-8	Auramine	6.2E-01	C	2.6E+00	C	7.2E-03	Calculated	
65195-55-3	Avermectin B1	5.1E+00	N	6.6E+01	N	9.8E+01	Calculated	Yes
86-50-0	Azinphos-methyl	3.8E+01	N	4.9E+02	N	1.3E-01	Calculated	Yes

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
103-33-3	Azobenzene	5.6E+00	C	2.6E+01	C	4.9E-02	Calculated	
123-77-3	Azodicarbonamide	1.1E+04	N	1.1E+05	N	4.7E+01	Calculated	Yes
7440-39-3	Barium	3.1E+03	N	4.7E+04	N	5.8E+02	2L or IMAC	Yes
1861-40-1	Benfluralin	7.8E+01	N	1.2E+03	N	2.3E+01	Calculated	Yes
17804-35-2	Benomyl	6.3E+02	N	8.2E+03	N	6.1E+00	Calculated	Yes
83055-99-6	Bensulfuron-methyl	2.5E+03	N	3.3E+04	N	7.2E+00	Calculated	Yes
25057-89-0	Bentazon	3.8E+02	N	4.9E+03	N	9.2E-01	Calculated	Yes
100-52-7	Benzaldehyde	1.7E+02	C	8.2E+02	C	3.1E+00	2L or IMAC	Yes
71-43-2	Benzene	1.2E+00	C	5.4E+00	C	1.0E-02	2L or IMAC	Yes
6369-59-1	Benzenediamine-2-methyl sulfate, 1,4-	3.8E+00	N	2.3E+01	C	1.9E-03	Calculated	Yes
108-98-5	Benzenethiol	1.6E+01	N	2.3E+02	N	9.4E-02	Calculated	Yes
92-87-5	Benidine	5.3E-04	C	1.0E-02	C	7.9E-06	Calculated	Yes
65-85-0	Benzoic Acid	5.1E+04	N	6.6E+05	N	1.2E+02	2L or IMAC	Yes
98-07-7	Benzotrichloride	5.3E-02	C	2.5E-01	C	1.2E-04	Calculated	
100-51-6	Benzyl Alcohol	1.3E+03	N	1.6E+04	N	3.4E+00	2L or IMAC	Yes
100-44-7	Benzyl Chloride	1.1E+00	C	5.0E+00	C	4.5E-03	Calculated	Yes
7440-41-7	Beryllium and compounds	3.1E+01	N	4.7E+02	N	6.3E+01	2L or IMAC	Yes
42576-02-3	Bifenox	1.1E+02	N	1.5E+03	N	9.5E+00	Calculated	Yes
82657-04-3	Biphenethrin	1.9E+02	N	2.5E+03	N	9.5E+03	Calculated	Yes
92-52-4	Biphenyl, 1,1'-	1.0E+01	N	4.3E+01	N	8.4E+01	2L or IMAC	Yes
108-60-1	Bis(2-chloro-1-methylethyl) ether	6.3E+02	N	9.3E+03	N	2.1E+00	Calculated	Yes
111-91-1	Bis(2-chloroethoxy)methane	3.8E+01	N	4.9E+02	N	9.6E-02	Calculated	Yes
111-44-4	Bis(2-chloroethyl)ether	2.4E-01	C	1.1E+00	C	1.6E-04	2L or IMAC	
542-88-1	Bis(chloromethyl)ether	8.8E-05	C	3.8E-04	C	7.5E-07	Calculated	
80-05-7	Bisphenol A	6.3E+02	N	8.2E+03	N	5.3E+02	Calculated	Yes
7440-42-8	Boron And Borates Only	3.1E+03	N	4.7E+04	N	4.5E+01	2L or IMAC	Yes
10294-34-5	Boron Trichloride	3.1E+04	N	4.7E+05	N			Yes
7637-07-2	Boron Trifluoride	6.3E+02	N	9.3E+03	N			Yes
15541-45-4	Bromate	9.9E-01	C	4.7E+00	C	7.7E-03	Calculated	Yes
107-04-0	Bromo-2-chloroethane, 1-	7.5E-02	N	3.3E-01	N	4.0E-03	Calculated	Yes
1073-06-9	Bromo-3-fluorobenzene, 1-	4.7E+00	N	7.0E+01	N	4.0E-02	Calculated	Yes
460-00-4	Bromo-4-fluorobenzene, 1-	4.7E+00	N	7.0E+01	N	4.0E-02	Calculated	Yes
79-08-3	Bromoacetic acid							
108-86-1	Bromobenzene	5.9E+01	N	3.7E+02	N	7.6E-01	Calculated	Yes
74-97-5	Bromochloromethane	3.2E+01	N	1.3E+02	N			Yes
75-27-4	Bromodichloromethane	3.1E-01	C	1.4E+00	C	3.3E-03	2L or IMAC	Yes
75-25-2	Bromoform	2.0E+01	C	9.0E+01	C	2.1E-02	2L or IMAC	Yes
74-83-9	Bromomethane	1.4E+00	N	6.4E+00	N	5.0E-02	2L or IMAC	Yes
2104-96-3	Bromophos	7.8E+01	N	1.2E+03	N	3.0E+00	Calculated	Yes
106-94-5	Bromopropane, 1-	1.7E+00	C	7.6E+00	C			Yes
1689-84-5	Bromoxynil	5.4E+00	C	2.3E+01	C	6.0E-03	Calculated	Yes
1689-99-2	Bromoxynil Octanoate	7.0E+00	C	3.3E+01	C	6.1E-02	Calculated	Yes
106-99-0	Butadiene, 1,3-	8.0E-02	C	3.5E-01	C	6.3E-04	Calculated	Yes
71-36-3	Butanol, N-	1.6E+03	N	2.3E+04	N	2.4E+00	2L or IMAC	Yes

North Carolina Department of Environmental Quality

Preliminary Soil Remediation Goals (PSRG)

July 2023

(based on May 2023 USEPA Regional Screening Tables)

This table must be used with the PSRG Notes/ See Compound-Specific Notes for chemicals in *blue*.

CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
75-65-0	Butyl Alcohol, t-	1.4E+03	C	6.5E+03	C	4.1E-02	2L or IMAC	Yes
78-92-2	Butyl alcohol, sec-	2.7E+04	N	3.0E+05	N	4.1E+01	2L or IMAC	Yes
2008-41-5	Butylate	7.8E+02	N	1.2E+04	N	6.8E+00	Calculated	Yes
25013-16-5	Butylated hydroxyanisole	2.7E+03	C	1.1E+04	C	6.6E+00	Calculated	
128-37-0	Butylated hydroxytoluene	1.5E+02	C	6.4E+02	C	5.8E+00	Calculated	Yes
104-51-8	Butylbenzene, n-	7.8E+02	N	1.2E+04	N	4.5E+00	2L or IMAC	Yes
135-98-8	Butylbenzene, sec-	1.6E+03	N	2.3E+04	N	4.1E+00	2L or IMAC	Yes
98-06-6	Butylbenzene, tert-	1.6E+03	N	2.3E+04	N	3.1E+00	2L or IMAC	Yes
75-60-5	Cacodylic Acid	2.5E+02	N	3.3E+03	N	8.1E-01	Calculated	Yes
7440-43-9	Cadmium (Diet)	1.4E+00	N	2.0E+01	N	3.0E+00	2L or IMAC	Yes
7440-43-9	Cadmium (Water)							
105-60-2	Caprolactam	6.3E+03	N	8.2E+04	N	2.0E+01	2L or IMAC	Yes
2425-06-1	Captafol	3.6E+00	C	1.5E+01	C	8.2E-03	Calculated	Yes
133-06-2	Captan	2.4E+02	C	1.0E+03	C	2.1E-01	Calculated	Yes
63-25-2	Carbaryl	1.3E+03	N	1.6E+04	N	1.3E+01	Calculated	Yes
1563-66-2	Carbofuran	6.3E+01	N	8.2E+02	N	3.1E-01	2L or IMAC	Yes
75-15-0	Carbon Disulfide	1.6E+02	N	7.4E+02	N	4.1E+00	2L or IMAC	Yes
56-23-5	Carbon Tetrachloride	6.9E-01	C	3.0E+00	C	2.3E-03	2L or IMAC	Yes
463-58-1	Carbonyl Sulfide	1.4E+01	N	6.0E+01	N			Yes
55285-14-8	Carbosulfan	1.3E+02	N	1.6E+03	N	3.4E+01	Calculated	Yes
5234-68-4	Carboxin	1.3E+03	N	1.6E+04	N	7.5E+00	Calculated	Yes
1306-38-3	Ceric oxide	1.1E+07	N	4.7E+07	N			Yes
302-17-0	Chloral Hydrate	1.6E+03	N	2.3E+04	N	2.8E+00	Calculated	Yes
133-90-4	Chloramben	1.9E+02	N	2.5E+03	N	5.1E-01	Calculated	Yes
E701235	Chloramines, Organic							
118-75-2	Chloranil	1.4E+00	C	5.7E+00	C	1.4E-03	Calculated	
5103-71-9	Chlordane (alpha)	7.1E+00	N	1.0E+02	N	9.5E+00	Calculated	Yes
5103-74-2	Chlordane (gamma)	7.1E+00	N	1.0E+02	N	9.5E+00	Calculated	Yes
12789-03-6	Chlordane (technical mixture)	1.7E+00	C	7.7E+00	C	2.7E-01	2L or IMAC	Yes
143-50-0	Chlordecone (Kepone)	5.4E-02	C	2.3E-01	C	2.5E-03	Calculated	Yes
470-90-6	Chlorfenvinphos	8.8E+00	N	1.1E+02	N	2.7E-01	Calculated	Yes
90982-32-4	Chlorimuron, Ethyl-	1.1E+03	N	1.5E+04	N	4.3E+00	Calculated	Yes
7782-50-5	Chlorine	4.1E-02	N	1.7E-01	N	3.4E+00	Calculated	Yes
10049-04-4	Chlorine Dioxide	4.7E+02	N	7.0E+03	N			Yes
7758-19-2	Chlorite (Sodium Salt)	4.7E+02	N	7.0E+03	N			Yes
75-68-3	Chloro-1,1-difluoroethane, 1-	1.1E+04	N	4.8E+04	N			Yes
126-99-8	Chloro-1,3-butadiene, 2- (Chloroprene)	1.1E-02	C	4.7E-02	C	1.5E+00	Calculated	Yes
3165-93-3	Chloro-2-methylaniline HCl, 4-	1.2E+00	C	5.0E+00	C	1.4E-03	Calculated	
95-69-2	Chloro-2-methylaniline, 4-	5.4E+00	C	2.3E+01	C	4.0E-03	Calculated	Yes
107-20-0	Chloroacetaldehyde, 2-	2.6E+00	C	1.2E+01	C	5.2E-04	Calculated	
79-11-8	Chloroacetic Acid							
532-27-4	Chloroacetophenone, 2-	3.7E+05	N	1.6E+06	N			Yes
106-47-8	Chloroaniline, p-	2.7E+00	C	1.1E+01	C	1.5E-03	Calculated	Yes

North Carolina Department of Environmental Quality

Preliminary Soil Remediation Goals (PSRG)

July 2023

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
108-90-7	Chlorobenzene	5.8E+01	N	2.8E+02	N	6.8E-01	2L or IMAC	Yes
98-66-8	Chlorobenzene sulfonic acid, p-	1.3E+03	N	1.6E+04	N	3.2E+00	Calculated	Yes
510-15-6	Chlorobenzilate	4.9E+00	C	2.1E+01	C	2.1E-02	Calculated	Yes
74-11-3	Chlorobenzoic Acid, p-	3.8E+02	N	4.9E+03	N	1.1E+00	Calculated	Yes
98-56-6	Chlorobenzotrifluoride, 4-	2.4E+00	C	1.0E+01	C	1.5E+00	Calculated	Yes
109-69-3	Chlorobutane, 1-	6.3E+02	N	9.3E+03	N	2.3E+00	Calculated	Yes
75-45-6	Chlorodifluoromethane	1.0E+04	N	4.4E+04	N			Yes
107-07-3	Chloroethanol, 2-	3.1E+02	N	4.7E+03	N	5.7E-01	Calculated	Yes
67-66-3	Chloroform	3.4E-01	C	1.5E+00	C	3.9E-01	2L or IMAC	Yes
74-87-3	Chloromethane	2.3E+01	N	9.9E+01	N	1.5E-02	2L or IMAC	Yes
107-30-2	Chloromethyl Methyl Ether	2.1E-02	C	9.4E-02	C	6.2E-05	Calculated	
88-73-3	Chloronitrobenzene, o-	1.8E+00	C	7.7E+00	C	2.2E-03	Calculated	Yes
100-00-5	Chloronitrobenzene, p-	8.8E+00	N	3.8E+01	C	1.1E-02	Calculated	Yes
95-57-8	Chlorophenol, 2-	7.8E+01	N	1.2E+03	N	7.8E-03	2L or IMAC	Yes
76-06-2	Chloropicrin	4.2E-01	N	1.7E+00	N			Yes
1897-45-6	Chlorothalonil	3.2E+01	C	1.4E+02	C	9.4E-02	Calculated	Yes
95-49-8	Chlorotoluene, o-	3.1E+02	N	4.7E+03	N	2.0E+00	2L or IMAC	Yes
106-43-4	Chlorotoluene, p-	3.1E+02	N	4.7E+03	N	4.6E-01	2L or IMAC	Yes
54749-90-5	Chlorozotocin	2.3E-03	C	9.6E-03	C	6.4E-07	Calculated	
101-21-3	Chlorpropham	6.3E+01	N	8.2E+02	N	6.3E-01	Calculated	Yes
2921-88-2	Chlorpyrifos	1.3E+01	N	1.6E+02	N	2.1E+00	Calculated	Yes
5598-13-0	Chlorpyrifos Methyl	1.3E+02	N	1.6E+03	N	6.4E+00	Calculated	Yes
64902-72-3	Chlorsulfuron	6.3E+02	N	8.2E+03	N	5.9E+00	Calculated	Yes
1861-32-1	Chlorthal-dimethyl	1.3E+02	N	1.6E+03	N	1.7E+00	Calculated	Yes
60238-56-4	Chlorthiophos	1.0E+01	N	1.3E+02	N	2.9E+00	Calculated	Yes
16065-83-1	Chromium(III), Insoluble Salts	2.3E+04	N	3.5E+05	N	3.6E+05	2L or IMAC	Yes
18540-29-9	Chromium(VI)	3.1E-01	C	6.5E+00	C	3.8E+00	2L or IMAC	Yes
7440-47-3	Chromium, Total							
74115-24-5	Clofentezine	1.6E+02	N	2.1E+03	N	1.1E+02	Calculated	Yes
7440-48-4	Cobalt	4.7E+00	N	7.0E+01	N	9.0E-01	2L or IMAC	Yes
E649830	Coke Oven Emissions							
7440-50-8	Copper	6.3E+02	N	9.3E+03	N	7.0E+02	2L or IMAC	Yes
108-39-4	Cresol, m-	6.3E+02	N	8.2E+03	N	6.4E+00	2L or IMAC	Yes
95-48-7	Cresol, o-	6.3E+02	N	8.2E+03	N	6.5E+00	2L or IMAC	Yes
106-44-5	Cresol, p-	2.5E+02	N	3.3E+03	N	6.4E-01	2L or IMAC	Yes
59-50-7	Cresol, p-chloro-m-	1.3E+03	N	1.6E+04	N	1.7E+01	Calculated	Yes
1319-77-3	Cresols	1.3E+03	N	1.6E+04	N	1.1E+01	Calculated	Yes
123-73-9	Crotonaldehyde, trans-	3.7E-01	C	1.7E+00	C	7.5E-05	Calculated	Yes
98-82-8	Cumene	4.1E+02	N	2.1E+03	N	2.3E+00	2L or IMAC	Yes
135-20-6	Cupferron	2.5E+00	C	1.0E+01	C	5.5E-03	Calculated	
21725-46-2	Cyanazine	6.5E-01	C	2.7E+00	C	3.9E-04	Calculated	Yes
	Cyanides							
592-01-8	~Calcium Cyanide	1.6E+01	N	2.3E+02	N			Yes
544-92-3	~Copper Cyanide	7.8E+01	N	1.2E+03	N			Yes

North Carolina Department of Environmental Quality

Preliminary Soil Remediation Goals (PSRG)

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
57-12-5	~Cyanide (CN-)	4.7E+00	N	3.1E+01	N	1.4E+01	2L or IMAC	Yes
460-19-5	~Cyanogen	1.6E+01	N	2.3E+02	N			Yes
506-68-3	~Cyanogen Bromide	1.4E+03	N	2.1E+04	N			Yes
506-77-4	~Cyanogen Chloride	7.8E+02	N	1.2E+04	N			Yes
74-90-8	~Hydrogen Cyanide	4.7E+00	N	3.1E+01	N	4.2E-01	Calculated	Yes
151-50-8	~Potassium Cyanide	3.1E+01	N	4.7E+02	N			Yes
506-61-6	~Potassium Silver Cyanide	7.8E+01	N	1.2E+03	N			Yes
506-64-9	~Silver Cyanide	1.6E+03	N	2.3E+04	N			Yes
143-33-9	~Sodium Cyanide	1.6E+01	N	2.3E+02	N			Yes
E1790665	~Thiocyanates	3.1E+00	N	4.7E+01	N			Yes
463-56-9	~Thiocyanic Acid	3.1E+00	N	4.7E+01	N			Yes
557-21-1	~Zinc Cyanide	7.8E+02	N	1.2E+04	N			Yes
110-82-7	Cyclohexane	1.4E+03	N	5.8E+03	N			Yes
87-84-3	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	2.7E+01	C	1.1E+02	C	2.0E-01	Calculated	Yes
108-94-1	Cyclohexanone	6.0E+03	N	2.7E+04	N	1.6E+02	Calculated	Yes
110-83-8	Cyclohexene	6.3E+01	N	6.3E+02	N	4.6E-01	Calculated	Yes
108-91-8	Cyclohexylamine	3.1E+03	N	4.7E+04	N	7.4E+00	Calculated	Yes
68359-37-5	Cyfluthrin	3.2E+02	N	4.1E+03	N	9.1E+02	Calculated	Yes
66215-27-8	Cyromazine	6.3E+03	N	8.2E+04	N	1.8E+01	Calculated	Yes
72-54-8	DDD, p,p'- (DDD)	2.3E+00	C	9.6E+00	C	4.7E-01	2L or IMAC	Yes
72-55-9	DDE, p,p'-	2.0E+00	C	9.3E+00	C	4.7E-01	2L or IMAC	Yes
50-29-3	DDT	1.9E+00	C	8.5E+00	C	6.7E-01	2L or IMAC	Yes
75-99-0	Dalapon	3.8E+02	N	4.9E+03	N	8.3E-01	2L or IMAC	Yes
1596-84-5	Daminozide	3.0E+01	C	1.3E+02	C	8.6E-03	Calculated	Yes
1163-19-5	Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	8.8E+01	N	1.1E+03	N	5.4E+02	Calculated	Yes
8065-48-3	Demeton	5.1E-01	N	6.6E+00	N			Yes
103-23-1	Di(2-ethylhexyl)adipate	4.5E+02	C	1.9E+03	C	4.2E+01	Calculated	Yes
2303-16-4	Diallate	8.9E+00	C	3.8E+01	C	1.7E-02	Calculated	
333-41-5	Diazinon	8.8E+00	N	1.1E+02	N	6.1E-01	Calculated	Yes
96-12-8	Dibromo-3-chloropropane, 1,2-	5.6E-03	C	6.8E-02	C	3.5E-04	2L or IMAC	Yes
631-64-1	Dibromoacetic acid							
108-36-1	Dibromobenzene, 1,3-	6.3E+00	N	9.3E+01	N	5.3E-02	Calculated	Yes
106-37-6	Dibromobenzene, 1,4-	1.6E+02	N	2.3E+03	N	1.3E+00	2L or IMAC	Yes
124-48-1	Dibromochloromethane	8.3E+00	C	3.9E+01	C	2.1E-03	2L or IMAC	Yes
106-93-4	Dibromoethane, 1,2-	3.8E-02	C	1.7E-01	C	1.1E-04	2L or IMAC	Yes
74-95-3	Dibromomethane (Methylene Bromide)	5.0E+00	N	2.1E+01	N	3.4E-01	2L or IMAC	Yes
E1790661	Dibutyltin Compounds	3.8E+00	N	4.9E+01	N			Yes
1918-00-9	Dicamba	3.8E+02	N	4.9E+03	N	1.1E+00	Calculated	Yes
3400-09-7	Dichloramine							
764-41-0	Dichloro-2-butene, 1,4-	2.3E-03	C	1.0E-02	C			
1476-11-5	Dichloro-2-butene, cis-1,4-	7.9E-03	C	3.5E-02	C			

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
110-57-6	Dichloro-2-butene, trans-1,4-	7.9E-03	C	3.5E-02	C			
79-43-6	Dichloroacetic Acid	1.1E+01	C	4.6E+01	C	2.9E-03	2L or IMAC	Yes
95-50-1	Dichlorobenzene, 1,2-	3.8E+02	N	2.0E+03	N	3.9E-01	2L or IMAC	Yes
106-46-7	Dichlorobenzene, 1,4-	2.8E+00	C	1.2E+01	C	1.2E-01	2L or IMAC	Yes
91-94-1	Dichlorobenzidine, 3,3'-	1.2E+00	C	5.1E+00	C	1.0E-02	Calculated	
90-98-2	Dichlorobenzophenone, 4,4'-	1.1E+02	N	1.5E+03	N	7.6E+00	Calculated	Yes
75-71-8	Dichlorodifluoromethane	1.8E+01	N	7.8E+01	N	3.0E+01	2L or IMAC	Yes
75-34-3	Dichloroethane, 1,1-	3.8E+00	C	1.7E+01	C	3.4E-02	2L or IMAC	Yes
107-06-2	Dichloroethane, 1,2-	4.9E-01	C	2.2E+00	C	2.3E-03	2L or IMAC	Yes
75-35-4	Dichloroethylene, 1,1-	4.8E+01	N	2.1E+02	N	2.5E+00	2L or IMAC	Yes
156-59-2	Dichloroethylene, cis-1,2-	1.3E+01	N	7.8E+01	N	4.1E-01	2L or IMAC	Yes
156-60-5	Dichloroethylene, trans-1,2-	1.5E+01	N	6.4E+01	N	6.2E-01	2L or IMAC	Yes
120-83-2	Dichlorophenol, 2,4-	3.8E+01	N	4.9E+02	N	9.7E-03	2L or IMAC	Yes
94-75-7	Dichlorophenoxy Acetic Acid, 2,4-	1.4E+02	N	1.9E+03	N	3.6E-01	2L or IMAC	Yes
78-87-5	Dichloropropane, 1,2-	2.6E+00	C	1.2E+01	C	4.0E-03	2L or IMAC	Yes
142-28-9	Dichloropropane, 1,3-	3.1E+02	N	4.7E+03	N	9.7E-01	Calculated	Yes
616-23-9	Dichloropropanol, 2,3-	3.8E+01	N	4.9E+02	N	8.9E-02	Calculated	Yes
542-75-6	Dichloropropene, 1,3-	1.9E+00	C	8.6E+00	C	2.9E-03	2L or IMAC	Yes
62-73-7	Dichlorvos	1.9E+00	C	7.9E+00	C	7.4E-04	Calculated	Yes
141-66-2	Dicrotophos	3.8E-01	N	4.9E+00	N	9.8E-04	Calculated	Yes
77-73-6	Dicyclopentadiene	2.7E-01	N	1.2E+00	N	3.9E+01	Calculated	Yes
60-57-1	Dieldrin	3.4E-02	C	1.4E-01	C	1.6E-03	2L or IMAC	Yes
E17136615	Diesel Engine Exhaust							
111-42-2	Diethanolamine	2.5E+01	N	3.3E+02	N	5.7E-02	Calculated	Yes
112-34-5	Diethylene Glycol Monobutyl Ether	3.8E+02	N	4.9E+03	N	9.2E-01	Calculated	Yes
111-90-0	Diethylene Glycol Monoethyl Ether	7.6E+02	N	9.8E+03	N	1.7E+00	Calculated	Yes
617-84-5	Diethylformamide	1.6E+01	N	2.3E+02	N	2.9E-02	Calculated	Yes
56-53-1	Diethylstilbestrol	1.6E-03	C	6.6E-03	C	1.1E-03	Calculated	
43222-48-6	Difenzoquat	1.0E+03	N	1.4E+04	N	1.8E+03	Calculated	Yes
35367-38-5	Diflubenzuron	2.5E+02	N	3.3E+03	N	3.2E+00	Calculated	Yes
75-37-6	Difluoroethane, 1,1-	1.0E+04	N	4.3E+04	N			Yes
420-45-1	Difluoropropane, 2,2-	5.0E+03	N	2.1E+04	N			Yes
94-58-6	Dihydrosafrole	1.0E+01	C	4.6E+01	C	9.8E-03	Calculated	
108-20-3	Diisopropyl Ether	4.8E+02	N	2.0E+03	N	3.6E-01	2L or IMAC	Yes
1445-75-6	Diisopropyl Methylphosphonate	1.3E+03	N	1.9E+04	N	3.2E+00	Calculated	Yes
55290-64-7	Dimethipin	2.8E+02	N	3.6E+03	N	6.8E-01	Calculated	Yes
60-51-5	Dimethoate	2.8E+01	N	3.6E+02	N	6.9E-02	Calculated	Yes
119-90-4	Dimethoxybenzidine, 3,3'-	3.4E-01	C	1.4E+00	C	5.3E-04	Calculated	
756-79-6	Dimethyl methylphosphonate	3.2E+02	C	1.4E+03	C	8.7E-02	Calculated	Yes
60-11-7	Dimethylamino azobenzene [p-]	1.2E-01	C	5.0E-01	C	6.5E-04	Calculated	

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
21436-96-4	Dimethylaniline HCl, 2,4-	9.4E-01	C	4.0E+00	C	1.1E-03	Calculated	
95-68-1	Dimethylaniline, 2,4-	2.7E+00	C	1.1E+01	C	2.0E-03	Calculated	Yes
121-69-7	Dimethylaniline, N,N-	2.6E+01	C	1.2E+02	C	9.3E-03	Calculated	Yes
119-93-7	Dimethylbenzidine, 3,3'-	4.9E-02	C	2.1E-01	C	4.2E-04	Calculated	
68-12-2	Dimethylformamide	5.4E+02	N	3.0E+03	N	2.8E+00	Calculated	Yes
57-14-7	Dimethylhydrazine, 1,1-	1.2E-02	N	5.1E-02	N	3.1E-03	Calculated	Yes
540-73-8	Dimethylhydrazine, 1,2-	9.0E-04	C	4.1E-03	C	2.9E-07	Calculated	
105-67-9	Dimethylphenol, 2,4-	2.5E+02	N	3.3E+03	N	2.4E+00	2L or IMAC	Yes
576-26-1	Dimethylphenol, 2,6-	7.6E+00	N	9.8E+01	N	1.0E-01	Calculated	Yes
95-65-8	Dimethylphenol, 3,4-	1.3E+01	N	1.6E+02	N	1.7E-01	Calculated	Yes
513-37-1	Dimethylvinylchloride	1.2E+00	C	5.1E+00	C	5.1E-03	Calculated	
534-52-1	Dinitro-o-cresol, 4,6-	1.0E+00	N	1.3E+01	N	1.9E-02	Calculated	Yes
131-89-5	Dinitro-o-cyclohexyl Phenol, 4,6-	2.5E+01	N	3.3E+02	N	9.3E+00	Calculated	Yes
618-87-1	Dinitroaniline, 3,5-	5.1E+00	N	6.6E+01	N	3.0E-02	Calculated	Yes
528-29-0	Dinitrobenzene, 1,2-	1.3E+00	N	1.6E+01	N	1.3E-02	Calculated	Yes
99-65-0	Dinitrobenzene, 1,3-	1.3E+00	N	1.6E+01	N	1.3E-02	Calculated	Yes
100-25-4	Dinitrobenzene, 1,4-	1.3E+00	N	1.6E+01	N	1.3E-02	Calculated	Yes
51-28-5	Dinitrophenol, 2,4-	2.5E+01	N	3.3E+02	N	3.1E-01	Calculated	Yes
E1615210	Dinitrotoluene Mixture, 2,4/2,6-	8.0E-01	C	3.4E+00	C	1.4E-03	Calculated	
121-14-2	Dinitrotoluene, 2,4-	1.7E+00	C	7.4E+00	C	1.4E-03	2L or IMAC	Yes
606-20-2	Dinitrotoluene, 2,6-	3.6E-01	C	1.5E+00	C	1.4E-03	2L or IMAC	Yes
35572-78-2	Dinitrotoluene, 2-Amino-4,6-	1.5E+00	N	2.3E+01	N	1.1E-02	Calculated	Yes
19406-51-0	Dinitrotoluene, 4-Amino-2,6-	1.5E+00	N	2.3E+01	N	1.1E-02	Calculated	Yes
25321-14-6	Dinitrotoluene, Technical grade	1.2E+00	C	5.1E+00	C	2.1E-03	Calculated	Yes
88-85-7	Dinoseb	1.3E+01	N	1.6E+02	N	1.2E+00	2L or IMAC	Yes
123-91-1	Dioxane, 1,4-	5.4E+00	C	2.5E+01	C	1.2E-02	2L or IMAC	Yes
	Dioxins							
34465-46-8	~Hexachlorodibenzo-p-dioxin, Mixture	1.0E-04	C	4.7E-04	C	1.6E-04	Calculated	
1746-01-6	~TCDD, 2,3,7,8-	4.8E-06	C	2.2E-05	C	2.0E-06	2L or IMAC	Yes
957-51-7	Diphenamid	3.8E+02	N	4.9E+03	N	4.1E+01	Calculated	Yes
101-84-8	Diphenyl Ether	7.2E+00	N	3.0E+01	N	1.5E+01	2L or IMAC	Yes
127-63-9	Diphenyl Sulfone	1.0E+01	N	1.3E+02	N	2.7E-01	Calculated	Yes
122-39-4	Diphenylamine	1.3E+03	N	1.6E+04	N	2.6E+01	Calculated	Yes
122-66-7	Diphenylhydrazine, 1,2-	6.8E-01	C	2.9E+00	C	2.8E-03	Calculated	
2764-72-9	Diquat	2.8E+01	N	3.6E+02	N	3.3E+00	2L or IMAC	Yes
1937-37-7	Direct Black 38	7.3E-02	C	3.1E-01	C	4.6E+01	Calculated	
2602-46-2	Direct Blue 6	7.3E-02	C	3.1E-01	C	1.5E+02	Calculated	
16071-86-6	Direct Brown 95	8.1E-02	C	3.4E-01	C	1.5E+00	Calculated	
298-04-4	Disulfoton	5.1E-01	N	6.6E+00	N	1.1E-02	2L or IMAC	Yes
505-29-3	Dithiane, 1,4-	1.6E+02	N	2.3E+03	N	6.9E-01	Calculated	Yes
330-54-1	Diuron	2.5E+01	N	3.3E+02	N	1.2E-01	Calculated	Yes
2439-10-3	Dodine	2.5E+02	N	3.3E+03	N	1.4E+01	Calculated	Yes

North Carolina Department of Environmental Quality

Preliminary Soil Remediation Goals (PSRG)

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(based on May 2023 USEPA Regional Screening Tables)

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
759-94-4	EPTC	7.8E+02	N	1.2E+04	N	3.7E+00	Calculated	Yes
115-29-7	Endosulfan	9.4E+01	N	1.4E+03	N	1.1E+01	2L or IMAC	Yes
1031-07-8	Endosulfan Sulfate	7.6E+01	N	9.8E+02	N	1.6E+01	2L or IMAC	Yes
145-73-3	Endothall	2.5E+02	N	3.3E+03	N	4.8E-01	2L or IMAC	Yes
72-20-8	Endrin	3.8E+00	N	4.9E+01	N	1.6E+00	2L or IMAC	Yes
106-89-8	Epichlorohydrin	4.0E+00	N	1.7E+01	N	1.8E-02	2L or IMAC	Yes
106-88-7	Epoxybutane, 1,2-	3.4E+01	N	1.4E+02	N			Yes
111-77-3	Ethanol, 2-(2-methoxyethoxy)-	5.1E+02	N	6.6E+03	N	1.1E+00	Calculated	Yes
16672-87-0	Ethephon	6.3E+01	N	8.2E+02	N	1.5E-01	Calculated	Yes
563-12-2	Ethion	6.3E+00	N	8.2E+01	N	1.4E-01	Calculated	Yes
111-15-9	Ethoxyethanol Acetate, 2-	5.4E+02	N	3.0E+03	N	2.9E+00	Calculated	Yes
110-80-5	Ethoxyethanol, 2-	5.4E+02	N	3.1E+03	N	2.5E+00	Calculated	Yes
141-78-6	Ethyl Acetate	1.3E+02	N	5.6E+02	N	1.3E+01	2L or IMAC	Yes
140-88-5	Ethyl Acrylate	9.8E+00	N	4.5E+01	N	1.6E-01	Calculated	Yes
75-00-3	Ethyl Chloride (Chloroethane)	1.1E+03	N	4.8E+03	N	1.7E+01	2L or IMAC	Yes
60-29-7	Ethyl Ether	3.1E+03	N	4.7E+04	N	6.3E+00	Calculated	Yes
97-63-2	Ethyl Methacrylate	3.8E+02	N	1.6E+03	N			Yes
637-92-3	Ethyl Tertiary Butyl Ether (ETBE)	1.4E+02	C	6.0E+02	C	2.3E-01	2L or IMAC	Yes
2104-64-5	Ethyl-p-nitrophenyl Phosphonate	1.3E-01	N	1.6E+00	N	4.4E-02	Calculated	Yes
100-41-4	Ethylbenzene	6.1E+00	C	2.7E+01	C	1.3E+01	2L or IMAC	Yes
109-78-4	Ethylene Cyanohydrin	8.8E+02	N	1.1E+04	N	2.0E+00	Calculated	Yes
107-15-3	Ethylene Diamine	1.4E+03	N	2.1E+04	N	2.9E+00	Calculated	Yes
107-21-1	Ethylene Glycol	1.0E+04	N	1.3E+05	N	4.0E+01	2L or IMAC	Yes
111-76-2	Ethylene Glycol Monobutyl Ether	1.3E+03	N	1.6E+04	N	2.9E+00	Calculated	Yes
75-21-8	Ethylene Oxide	2.2E-03	C	2.6E-02	C	4.7E-04	Calculated	Yes
96-45-7	Ethylene Thiourea	1.0E+00	N	1.3E+01	N	2.5E-03	Calculated	Yes
151-56-4	Ethyleneimine	2.8E-03	C	1.2E-02	C	2.3E-06	Calculated	
84-72-0	Ethylphthalyl Ethyl Glycolate	3.8E+04	N	4.9E+05	N	9.4E+02	Calculated	Yes
22224-92-6	Fenamiphos	3.2E+00	N	4.1E+01	N	3.5E-02	Calculated	Yes
39515-41-8	Fenpropathrin	3.2E+02	N	4.1E+03	N	1.6E+02	Calculated	Yes
51630-58-1	Fenvalerate	3.2E+02	N	4.1E+03	N	2.2E+03	Calculated	Yes
2164-17-2	Fluometuron	1.6E+02	N	2.1E+03	N	1.4E+00	Calculated	Yes
16984-48-8	Fluoride	6.3E+02	N	9.3E+03	N	6.0E+03	2L or IMAC	Yes
7782-41-4	Fluorine (Soluble Fluoride)	9.4E+02	N	1.4E+04	N	6.3E+02	Calculated	Yes
59756-60-4	Fluridone	1.0E+03	N	1.3E+04	N	1.3E+03	Calculated	Yes
56425-91-3	Flurprimidol	5.1E+02	N	6.6E+03	N	2.6E+01	Calculated	Yes
85509-19-9	Flusilazole	2.5E+01	N	3.3E+02	N	4.5E+01	Calculated	Yes
66332-96-5	Flutolanil	6.3E+03	N	8.2E+04	N	3.7E+02	Calculated	Yes
69409-94-5	Fluvalinate	1.3E+02	N	1.6E+03	N	2.0E+03	Calculated	Yes
133-07-3	Folpet	1.1E+03	N	1.5E+04	N	3.0E+00	Calculated	Yes
72178-02-0	Fomesafen	1.3E+02	N	1.6E+03	N	4.6E+00	Calculated	Yes

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Preliminary Soil Remediation Goals (PSRG)

July 2023

(based on May 2023 USEPA Regional Screening Tables)

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
944-22-9	Fonofos	2.5E+01	N	3.3E+02	N	5.4E-01	Calculated	Yes
50-00-0	Formaldehyde	1.2E+01	C	5.2E+01	C	2.4E+00	2L or IMAC	Yes
64-18-6	Formic Acid	6.1E+00	N	2.6E+01	N	2.5E+01	Calculated	Yes
39148-24-8	Fosetyl-AL	3.2E+04	N	4.1E+05	N	4.6E+03	Calculated	Yes
	Furans							
132-64-9	~Dibenzofuran	1.6E+01	N	2.3E+02	N	1.0E+01	2L or IMAC	Yes
110-00-9	~Furan	1.6E+01	N	2.3E+02	N	5.3E-02	Calculated	Yes
109-99-9	~Tetrahydrofuran	3.9E+03	N	2.0E+04	N	8.9E+00	2L or IMAC	Yes
67-45-8	Furazolidone	1.4E-01	C	6.0E-01	C	3.5E-04	Calculated	
98-01-1	Furfural	4.3E+01	N	5.4E+02	N	8.9E-02	Calculated	Yes
531-82-8	Furium	3.6E-01	C	1.5E+00	C	6.3E-04	Calculated	
60568-05-0	Furmecyclox	1.8E+01	C	7.7E+01	C	2.5E-02	Calculated	
77182-82-2	Glufosinate, Ammonium	7.6E+01	N	9.8E+02	N	1.8E-01	Calculated	Yes
111-30-8	Glutaraldehyde	1.3E+03	N	1.6E+04	N	2.8E+00	Calculated	Yes
765-34-4	Glycidaldehyde	4.7E+00	N	4.2E+01	N	1.1E-02	Calculated	Yes
1071-83-6	Glyphosate	1.3E+03	N	1.6E+04	N	6.2E+01	Calculated	Yes
113-00-8	Guanidine	1.6E+02	N	2.3E+03	N	3.1E-01	Calculated	Yes
50-01-1	Guanidine Chloride	2.5E+02	N	3.3E+03	N			Yes
506-93-4	Guanidine Nitrate	3.8E+02	N	4.9E+03	N	1.0E+00	Calculated	Yes
69806-40-2	Haloxfop, Methyl	6.3E-01	N	8.2E+00	N	7.8E-02	Calculated	Yes
76-44-8	Heptachlor	1.4E-01	C	6.3E-01	C	1.3E-02	2L or IMAC	Yes
1024-57-3	Heptachlor Epoxide	7.1E-02	C	3.3E-01	C	1.6E-03	2L or IMAC	Yes
111-71-7	Heptanal, n-	5.2E+00	N	2.2E+01	N			Yes
142-82-5	Heptane, N-	4.4E+00	N	5.8E+01	N	6.2E+01	2L or IMAC	Yes
87-82-1	Hexabromobenzene	3.1E+01	N	4.7E+02	N	1.6E+00	Calculated	Yes
68631-49-2	Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	2.5E+00	N	3.3E+01	N			Yes
118-74-1	Hexachlorobenzene	1.6E-01	N	9.9E-01	C	5.0E-03	2L or IMAC	Yes
87-68-3	Hexachlorobutadiene	1.3E+00	C	5.6E+00	C	1.5E-02	2L or IMAC	Yes
319-84-6	Hexachlorocyclohexane, Alpha-	8.6E-02	C	3.6E-01	C	7.0E-04	2L or IMAC	
319-85-7	Hexachlorocyclohexane, Beta-	3.0E-01	C	1.3E+00	C	2.3E-03	2L or IMAC	
58-89-9	Hexachlorocyclohexane, Gamma- (Lindane)	5.7E-01	C	2.5E+00	C	3.5E-03	2L or IMAC	Yes
608-73-1	Hexachlorocyclohexane, Technical	3.0E-01	C	1.3E+00	C	2.3E-03	2L or IMAC	
77-47-4	Hexachlorocyclopentadiene	3.8E-01	N	1.6E+00	N	2.6E+00	Calculated	Yes
67-72-1	Hexachloroethane	1.9E+00	C	8.5E+00	C	1.1E-02	Calculated	Yes
70-30-4	Hexachlorophene	3.8E+00	N	4.9E+01	N	5.6E+01	Calculated	Yes
121-82-4	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	8.3E+00	C	3.8E+01	C	3.3E-03	Calculated	Yes
822-06-0	Hexamethylene Diisocyanate, 1,6-	6.7E-01	N	2.8E+00	N			Yes
4035-89-6	Hexamethylene diisocyanate biuret	4.9E+06	N	2.1E+07	N			Yes

North Carolina Department of Environmental Quality

Preliminary Soil Remediation Goals (PSRG)

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
3779-63-3	Hexamethylene diisocyanate isocyanurate	4.9E+06	N	2.1E+07	N			Yes
680-31-9	Hexamethylphosphoramide	5.1E+00	N	6.6E+01	N	1.2E-02	Calculated	Yes
E5241997	Hexane, Commercial	1.2E+01	C	5.4E+01	C			Yes
110-54-3	Hexane, N-	1.3E+02	N	5.4E+02	N	5.5E+01	2L or IMAC	Yes
124-04-9	Hexanedioic Acid	2.5E+04	N	3.3E+05	N	7.0E+01	Calculated	Yes
104-76-7	Hexanol, 1-,2-ethyl- (2-Ethyl-1-hexanol)	3.2E+00	N	1.3E+01	N	2.0E-02	Calculated	Yes
591-78-6	Hexanone, 2-	4.2E+01	N	2.8E+02	N	1.8E-01	2L or IMAC	Yes
51235-04-2	Hexazinone	4.2E+02	N	5.4E+03	N	2.1E+00	Calculated	Yes
78587-05-0	Hexythiazox	3.2E+02	N	4.1E+03	N	1.6E+01	Calculated	Yes
67485-29-4	Hydramethylnon	2.1E+02	N	2.8E+03	N	8.6E+05	Calculated	Yes
302-01-2	Hydrazine	3.4E-02	C	1.5E-01	C	4.8E-05	Calculated	Yes
10034-93-2	Hydrazine Sulfate	2.3E-01	C	1.1E+00	C			
7647-01-0	Hydrogen Chloride	2.5E+08	N	1.0E+09	N			Yes
7664-39-3	Hydrogen Fluoride	6.3E+02	N	9.3E+03	N			Yes
7783-06-4	Hydrogen Sulfide	2.5E+07	N	1.0E+08	N			Yes
123-31-9	Hydroquinone	9.0E+00	C	3.8E+01	C	7.9E-03	Calculated	Yes
35554-44-0	Imazalil	8.9E+00	C	3.8E+01	C	2.0E-01	Calculated	Yes
81335-37-7	Imazaquin	3.2E+03	N	4.1E+04	N	1.7E+02	Calculated	Yes
81335-77-5	Imazethapyr	3.2E+04	N	4.1E+05	N	3.1E+02	Calculated	Yes
7553-56-2	Iodine	1.6E+02	N	2.3E+03	N	4.2E+01	Calculated	Yes
36734-19-7	Iprodione	5.1E+02	N	6.6E+03	N	1.7E+00	Calculated	Yes
7439-89-6	Iron	1.1E+04	N	1.6E+05	N	1.5E+02	2L or IMAC	Yes
78-83-1	Isobutyl Alcohol	1.6E+03	N	9.1E+03	N	8.6E+00	Calculated	Yes
78-59-1	Isophorone	5.7E+02	C	2.4E+03	C	2.6E-01	2L or IMAC	Yes
33820-53-0	Isopropalin	2.3E+02	N	3.5E+03	N	4.8E+01	Calculated	Yes
67-63-0	Isopropanol	1.2E+03	N	5.1E+03	N	5.7E+01	Calculated	Yes
1832-54-8	Isopropyl Methyl Phosphonic Acid	1.3E+03	N	1.6E+04	N	3.0E+00	Calculated	Yes
82558-50-7	Isoxaben	6.3E+02	N	8.2E+03	N	1.9E+01	Calculated	Yes
E1737665	JP-7	3.7E+09	N	1.6E+10	N			Yes
77501-63-4	Lactofen	1.0E+02	N	1.3E+03	N	5.2E+01	Calculated	Yes
78-97-7	Lactonitrile	2.5E+00	N	3.3E+01	N	5.7E-03	Calculated	Yes
7439-91-0	Lanthanum	7.8E-01	N	1.2E+01	N			Yes
100587-90-4	Lanthanum Acetate Hydrate	2.7E-01	N	3.4E+00	N			Yes
10025-84-0	Lanthanum Chloride Heptahydrate	3.0E-01	N	4.4E+00	N			Yes
10099-58-8	Lanthanum Chloride, Anhydrous	4.4E-01	N	6.5E+00	N			Yes
10277-43-7	Lanthanum Nitrate Hexahydrate	2.5E-01	N	3.7E+00	N			Yes
	Lead Compounds							
7446-27-7	~Lead Phosphate	8.2E+01	C	3.8E+02	C			
301-04-2	~Lead acetate	2.6E+00	C	1.1E+01	C	6.7E-04	Calculated	
7439-92-1	~Lead and Compounds					2.7E+02	2L or IMAC	

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1335-32-6	~Lead subacetate	1.4E+01	C	6.0E+01	C	4.1E-03	Calculated	
78-00-2	~Tetraethyl Lead	1.6E-03	N	2.3E-02	N	4.9E-05	Calculated	Yes
541-25-3	Lewisite	7.8E-02	N	1.2E+00	N	3.0E-04	Calculated	Yes
330-55-2	Linuron	9.7E+01	N	1.3E+03	N	9.5E-01	Calculated	Yes
7439-93-2	Lithium	3.1E+01	N	4.7E+02	N	4.2E+01	Calculated	Yes
94-74-6	MCPA	6.3E+00	N	8.2E+01	N	1.8E-02	Calculated	Yes
94-81-5	MCPB	5.6E+02	N	7.2E+03	N	2.4E+00	Calculated	Yes
93-65-2	MCPP	1.3E+01	N	1.6E+02	N	4.2E-02	Calculated	Yes
121-75-5	Malathion	2.5E+02	N	3.3E+03	N	7.4E-01	Calculated	Yes
108-31-6	Maleic Anhydride	1.3E+03	N	1.6E+04	N	2.8E+00	Calculated	Yes
123-33-1	Maleic Hydrazide	6.3E+03	N	8.2E+04	N	1.4E+01	Calculated	Yes
109-77-3	Malononitrile	1.3E+00	N	1.6E+01	N	2.9E-03	Calculated	Yes
8018-01-7	Mancozeb	3.8E+02	N	4.9E+03	N	5.9E+00	Calculated	Yes
12427-38-2	Maneb	6.3E+01	N	8.2E+02	N	9.9E-01	Calculated	Yes
7439-96-5	Manganese (Diet)							
7439-96-5	Manganese (Non-diet)	3.8E+02	N	5.6E+03	N	6.5E+01	2L or IMAC	Yes
950-10-7	Mephosfolan	1.1E+00	N	1.5E+01	N	1.9E-02	Calculated	Yes
24307-26-4	Mepiquat Chloride	3.8E+02	N	4.9E+03	N	1.4E+00	Calculated	Yes
149-30-4	Mercaptobenzothiazole, 2-	4.9E+01	C	2.1E+02	C	1.9E-01	Calculated	Yes
	Mercury Compounds							
7487-94-7	~Mercuric Chloride (and other Mercury salts)	4.7E+00	N	7.0E+01	N			Yes
7439-97-6	~Mercury (elemental)	2.3E+00	N	9.7E+00	N	1.0E+00	2L or IMAC	Yes
22967-92-6	~Methyl Mercury	1.6E+00	N	2.3E+01	N	4.9E+01	Calculated	Yes
62-38-4	~Phenylmercuric Acetate	1.0E+00	N	1.3E+01	N	3.5E-03	Calculated	Yes
150-50-5	Merphos	4.7E-01	N	7.0E+00	N	4.1E-01	Calculated	Yes
57837-19-1	Metalaxyl	7.6E+02	N	9.8E+03	N	2.3E+00	Calculated	Yes
126-98-7	Methacrylonitrile	1.5E+00	N	2.1E+01	N	3.2E-03	Calculated	Yes
10265-92-6	Methamidophos	6.3E-01	N	8.2E+00	N	1.5E-03	Calculated	Yes
67-56-1	Methanol	2.5E+04	N	2.5E+05	N	1.6E+01	2L or IMAC	Yes
950-37-8	Methidathion	1.9E+01	N	2.5E+02	N	5.1E-02	Calculated	Yes
16752-77-5	Methomyl	3.2E+02	N	4.1E+03	N	7.7E-01	Calculated	Yes
99-59-2	Methoxy-5-nitroaniline, 2-	1.1E+01	C	4.7E+01	C	4.9E-03	Calculated	
72-43-5	Methoxychlor	6.3E+01	N	8.2E+02	N	4.3E+01	2L or IMAC	Yes
110-49-6	Methoxyethanol Acetate, 2-	2.2E+01	N	1.1E+02	N	2.3E-01	Calculated	Yes
109-86-4	Methoxyethanol, 2-	5.2E+01	N	4.2E+02	N	1.4E-01	Calculated	Yes
79-20-9	Methyl Acetate	1.6E+04	N	2.3E+05	N	2.9E+01	Calculated	Yes
96-33-3	Methyl Acrylate	3.1E+01	N	1.3E+02	N			Yes
78-93-3	Methyl Ethyl Ketone (2-Butanone)	5.5E+03	N	4.0E+04	N	1.7E+01	2L or IMAC	Yes
60-34-4	Methyl Hydrazine	1.5E-01	C	6.6E-01	C	3.2E-02	Calculated	Yes
108-10-1	Methyl Isobutyl Ketone (4-methyl-2-pentanone)	7.0E+03	N	3.0E+04	N	4.5E-01	2L or IMAC	Yes
624-83-9	Methyl Isocyanate	9.8E-01	N	4.1E+00	N			Yes
80-62-6	Methyl Methacrylate	9.4E+02	N	4.1E+03	N	1.1E-01	2L or IMAC	Yes
298-00-0	Methyl Parathion	3.2E+00	N	4.1E+01	N	5.8E-02	Calculated	Yes

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993-13-5	Methyl Phosphonic Acid	7.6E+02	N	9.8E+03	N	1.7E+00	Calculated	Yes
25013-15-4	Methyl Styrene (Mixed Isomers)	6.5E+01	N	5.5E+02	N	1.4E+00	Calculated	Yes
66-27-3	Methyl methanesulfonate	5.5E+00	C	2.3E+01	C	1.5E-03	Calculated	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	4.9E+01	C	2.2E+02	C	9.0E-02	2L or IMAC	Yes
615-45-2	Methyl-1,4-benzenediamine dihydrochloride, 2-	3.8E+00	N	4.9E+01	N	2.5E-02	Calculated	Yes
108-11-2	Methyl-2-Pentanol, 4-	1.1E+04	N	4.8E+04	N			Yes
99-55-8	Methyl-5-Nitroaniline, 2-	6.0E+01	C	2.6E+02	C	4.3E-02	Calculated	Yes
70-25-7	Methyl-N-nitro-N-nitrosoguanidine, N-	6.5E-02	C	2.8E-01	C	2.9E-05	Calculated	
636-21-5	Methylaniline Hydrochloride, 2-	4.2E+00	C	1.8E+01	C	2.3E-03	Calculated	
124-58-3	Methylarsonic acid	1.3E+02	N	1.6E+03	N	4.0E-01	Calculated	Yes
74612-12-7	Methylbenzene,1,4-diamine monohydrochloride, 2-	2.5E+00	N	3.3E+01	N			Yes
615-50-9	Methylbenzene-1,4-diamine sulfate, 2-	3.8E+00	N	2.3E+01	C			Yes
56-49-5	Methylcholanthrene, 3-	5.5E-03	C	1.0E-01	C	6.1E-02	Calculated	
75-09-2	Methylene Chloride	5.8E+01	C	6.5E+02	N	2.5E-02	2L or IMAC	Yes
101-14-4	Methylene-bis(2-chloroaniline), 4,4'-	1.2E+00	C	2.3E+01	C	8.1E-02	Calculated	Yes
101-61-1	Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	1.2E+01	C	5.0E+01	C	8.4E-02	Calculated	
101-77-9	Methylenebisbenzenamine, 4,4'-	3.4E-01	C	1.4E+00	C	1.9E-03	Calculated	Yes
101-68-8	Methylenediphenyl Diisocyanate	7.4E+06	N	3.1E+07	N			Yes
98-83-9	Methylstyrene, Alpha-	1.1E+03	N	1.6E+04	N	1.6E+01	Calculated	Yes
51218-45-2	Metolachlor	1.9E+03	N	2.5E+04	N	2.5E+01	Calculated	Yes
21087-64-9	Metribuzin	3.2E+02	N	4.1E+03	N	1.1E+00	Calculated	Yes
74223-64-6	Metsulfuron-methyl	3.2E+03	N	4.1E+04	N	1.3E+01	Calculated	Yes
E1790669	Midrange Aliphatic Hydrocarbon Streams	6.9E-01	C	3.0E+00	C	1.9E+01	Calculated	Yes
8012-95-1	Mineral oils	4.7E+04	N	7.0E+05	N	1.6E+04	Calculated	Yes
2385-85-5	Mirex	3.6E-02	C	1.7E-01	C	2.8E-02	Calculated	Yes
2212-67-1	Molinate	2.5E+01	N	3.3E+02	N	1.6E-01	Calculated	Yes
7439-98-7	Molybdenum	7.8E+01	N	1.2E+03	N	7.1E+00	Calculated	Yes
10599-90-3	Monochloramine	1.6E+03	N	2.3E+04	N			Yes
100-61-8	Monomethylaniline	2.5E+01	N	3.3E+02	N	1.0E-01	Calculated	Yes
88671-89-0	Myclobutanil	3.2E+02	N	4.1E+03	N	4.3E+01	Calculated	Yes
74-31-7	N,N'-Diphenyl-1,4-benzenediamine	3.8E+00	N	4.9E+01	N	4.4E+00	Calculated	Yes
300-76-5	Naled	3.1E+01	N	4.7E+02	N	1.3E-01	Calculated	Yes
64742-95-6	Naphtha, High Flash Aromatic (HFAN)	4.7E+02	N	7.0E+03	N			Yes

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91-59-8	Naphthylamine, 2-	3.0E-01	C	1.3E+00	C	2.0E-03	Calculated	
15299-99-7	Napropamide	1.5E+03	N	2.0E+04	N	1.1E+02	Calculated	Yes
373-02-4	Nickel Acetate	1.4E+02	N	1.8E+03	N	3.1E-01	Calculated	Yes
3333-67-3	Nickel Carbonate	1.4E+02	N	1.8E+03	N			Yes
13463-39-3	Nickel Carbonyl	1.7E+02	N	2.6E+03	N			Yes
12054-48-7	Nickel Hydroxide	1.7E+02	N	2.6E+03	N			Yes
1313-99-1	Nickel Oxide	1.7E+02	N	2.6E+03	N			Yes
E715532	Nickel Refinery Dust	1.7E+02	N	2.6E+03	N	1.2E+02	Calculated	Yes
7440-02-0	Nickel Soluble Salts	3.1E+02	N	4.7E+03	N	1.3E+02	2L or IMAC	Yes
12035-72-2	Nickel Subsulfide	4.1E-01	C	1.9E+00	C			Yes
1271-28-9	Nickelocene	6.0E-01	C	2.5E+00	C			Yes
14797-55-8	Nitrate (measured as nitrogen)	2.5E+04	N	3.7E+05	N			Yes
E701177	Nitrate + Nitrite (measured as nitrogen)							
14797-65-0	Nitrite (measured as nitrogen)	1.6E+03	N	2.3E+04	N			Yes
88-74-4	Nitroaniline, 2-	1.3E+02	N	1.6E+03	N	5.9E-01	Calculated	Yes
100-01-6	Nitroaniline, 4-	2.7E+01	C	1.1E+02	C	1.5E-02	Calculated	Yes
98-95-3	Nitrobenzene	5.5E+00	C	2.4E+01	C	1.8E-01	Calculated	Yes
9004-70-0	Nitrocellulose	3.8E+07	N	4.9E+08	N	9.2E+04	Calculated	Yes
67-20-9	Nitrofurantoin	8.8E+02	N	1.1E+04	N	4.2E+00	Calculated	Yes
59-87-0	Nitrofurazone	4.2E-01	C	1.8E+00	C	4.8E-04	Calculated	
55-63-0	Nitroglycerin	1.3E+00	N	1.6E+01	N	6.0E-03	Calculated	Yes
556-88-7	Nitroguanidine	1.3E+03	N	1.6E+04	N	3.4E+00	Calculated	Yes
75-52-5	Nitromethane	5.8E+00	C	2.5E+01	C			Yes
79-46-9	Nitropropane, 2-	6.8E-02	C	3.0E-01	C			Yes
759-73-9	Nitroso-N-ethylurea, N-	4.5E-03	C	8.5E-02	C	6.3E-06	Calculated	
684-93-5	Nitroso-N-methylurea, N-	1.0E-03	C	1.9E-02	C	1.3E-06	Calculated	
924-16-3	Nitroso-di-N-butylamine, N-	1.0E-01	C	4.6E-01	C	2.6E-04	Calculated	
621-64-7	Nitroso-di-N-propylamine, N-	7.8E-02	C	3.3E-01	C	7.5E-05	Calculated	
1116-54-7	Nitrosodiethanolamine, N-	1.9E-01	C	8.2E-01	C	5.1E-05	Calculated	
55-18-5	Nitrosodiethylamine, N-	8.1E-04	C	1.5E-02	C	1.7E-06	Calculated	
62-75-9	Nitrosodimethylamine, N-	2.0E-03	C	3.5E-02	C	3.4E-06	2L or IMAC	Yes
86-30-6	Nitrosodiphenylamine, N-	1.1E+02	C	4.7E+02	C	7.8E-01	Calculated	
10595-95-6	Nitrosomethylethylamine, N-	2.0E-02	C	9.3E-02	C	9.1E-06	Calculated	
59-89-2	Nitrosomorpholine [N-]	8.1E-02	C	3.4E-01	C	2.6E-05	Calculated	
100-75-4	Nitrosopiperidine [N-]	5.8E-02	C	2.4E-01	C	4.0E-05	Calculated	
930-55-2	Nitrosopyrrolidine, N-	2.6E-01	C	1.1E+00	C	1.3E-04	Calculated	
99-08-1	Nitrotoluene, m-	1.3E+00	N	1.6E+01	N	1.3E-02	Calculated	Yes
88-72-2	Nitrotoluene, o-	3.2E+00	C	1.5E+01	C	3.0E-03	Calculated	Yes
99-99-0	Nitrotoluene, p-	3.4E+01	C	1.4E+02	C	4.1E-02	Calculated	Yes
111-84-2	Nonane, n-	2.3E+00	N	1.5E+01	N	5.8E-01	Calculated	Yes
27314-13-2	Norflurazon	1.9E+01	N	2.5E+02	N	1.4E+00	Calculated	Yes
32536-52-0	Octabromodiphenyl Ether	3.8E+01	N	4.9E+02	N	8.3E+01	Calculated	Yes

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2691-41-0	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	7.7E+02	N	1.1E+04	N	8.8E+00	Calculated	Yes
152-16-9	Octamethylpyrophosphoramide	2.5E+01	N	3.3E+02	N	6.7E-02	Calculated	Yes
19044-88-3	Oryzalin	7.0E+01	C	2.9E+02	C	1.7E-01	Calculated	Yes
19666-30-9	Oxadiazon	6.3E+01	N	8.2E+02	N	7.1E+00	Calculated	Yes
23135-22-0	Oxamyl	3.2E+02	N	4.1E+03	N	8.8E-01	2L or IMAC	Yes
42874-03-3	Oxyfluorfen	7.4E+00	C	3.1E+01	C	7.7E-01	Calculated	Yes
76738-62-0	Paclobutrazol	1.6E+02	N	2.1E+03	N	3.7E+00	Calculated	Yes
1910-42-5	Paraquat Dichloride	5.7E+01	N	7.4E+02	N	8.7E+00	Calculated	Yes
56-38-2	Parathion	7.6E+01	N	9.8E+02	N	4.2E+00	Calculated	Yes
1114-71-2	Pebulate	7.8E+02	N	1.2E+04	N	5.6E+00	Calculated	Yes
40487-42-1	Pendimethalin	3.8E+03	N	4.9E+04	N	4.8E+02	Calculated	Yes
32534-81-9	Pentabromodiphenyl Ether	3.1E+01	N	4.7E+02	N	1.2E+01	Calculated	Yes
60348-60-9	Pentabromodiphenyl ether, 2,2',4,4',5'- (BDE-99)	1.3E+00	N	1.6E+01	N	6.1E-01	Calculated	Yes
608-93-5	Pentachlorobenzene	1.3E+01	N	1.9E+02	N	8.5E-01	Calculated	Yes
76-01-7	Pentachloroethane	7.7E+00	C	3.6E+01	C	3.7E-03	Calculated	
82-68-8	Pentachloronitrobenzene	2.7E+00	C	1.3E+01	C	3.3E-02	Calculated	Yes
87-86-5	Pentachlorophenol	1.0E+00	C	4.0E+00	C	8.3E-03	2L or IMAC	Yes
78-11-5	Pentaerythritol tetranitrate (PETN)	1.1E+02	N	5.3E+02	C	2.4E-01	Calculated	Yes
10159-46-3	Pentamethylphosphoramide (PMPA)	1.3E+00	N	1.6E+01	N	2.9E-03	Calculated	Yes
109-66-0	Pentane, n-	1.7E+02	N	7.2E+02	N			Yes
	Per- and Polyfluoroalkyl Substances (PFAS)							
62037-80-3	~Ammonium perfluoro-2-methyl-3-oxahexanoate	3.8E-02	N	4.9E-01	N	9.4E-05	Calculated	Yes
10495-86-0	~Ammonium perfluorobutanoate	1.3E+01	N	1.6E+02	N	4.9E-02	Calculated	Yes
21615-47-4	~Ammonium perfluorohexanoate	7.8E+00	N	1.2E+02	N	1.6E-01	Calculated	Yes
13252-13-6	~Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.7E-02	N	7.0E-01	N			Yes
45187-15-3	~Perfluorobutanesulfonate	3.8E+00	N	4.9E+01	N	1.4E-02	Calculated	Yes
375-73-5	~Perfluorobutanesulfonic acid (PFBS)	3.8E+00	N	4.9E+01	N	1.3E-02	HAL	Yes
45048-62-2	~Perfluorobutanoate	1.6E+01	N	2.3E+02	N	5.3E-02	Calculated	Yes
375-22-4	~Perfluorobutanoic acid (PFBA)	1.6E+01	N	2.3E+02	N	4.9E-02	Calculated	Yes
108427-53-8	~Perfluorohexanesulfonate	2.5E-01	N	3.3E+00	N	1.2E-03	Calculated	Yes
355-46-4	~Perfluorohexanesulfonic acid (PFHxS)	2.5E-01	N	3.3E+00	N	1.2E-03	Calculated	Yes
92612-52-7	~Perfluorohexanoate	7.8E+00	N	1.2E+02	N	1.6E-01	Calculated	Yes
307-24-4	~Perfluorohexanoic acid (PFHxA)	6.3E+00	N	8.2E+01	N	1.7E-02	Calculated	Yes

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72007-68-2	~Perfluorononanoate	3.8E-02	N	4.9E-01	N	2.9E-04	Calculated	Yes
375-95-1	~Perfluorononanoic acid (PFNA)	3.8E-02	N	4.9E-01	N	2.9E-04	Calculated	Yes
45298-90-6	~Perfluorooctanesulfonate	2.5E-02	N	3.3E-01	N	2.6E-04	Calculated	Yes
1763-23-1	~Perfluorooctanesulfonic acid (PFOS)	2.5E-02	N	3.3E-01	N	2.6E-04	Calculated	Yes
45285-51-6	~Perfluorooctanoate	3.8E-02	N	4.9E-01	N	1.8E-04	Calculated	Yes
335-67-1	~Perfluorooctanoic acid (PFOA)	3.8E-02	N	4.9E-01	N	1.8E-04	Calculated	Yes
2966-54-3	~Potassium heptafluorobutanoate	3.1E+01	N	4.7E+02	N	1.1E-01	Calculated	Yes
29420-49-3	~Potassium perfluorobutanesulfonate	3.8E+00	N	4.9E+01	N	3.3E-02	Calculated	Yes
2795-39-3	~Potassium perfluorooctanesulfonate	2.5E-02	N	3.3E-01	N	2.0E-04	Calculated	Yes
2218-54-4	~Sodium perfluorobutanoate	1.6E+01	N	2.3E+02	N	5.3E-02	Calculated	Yes
2923-26-4	~Sodium perfluorohexanoate	7.8E+00	N	1.2E+02	N	1.6E-01	Calculated	Yes
	Perchlorates							
7790-98-9	~Ammonium Perchlorate	1.1E+01	N	1.6E+02	N			Yes
7791-03-9	~Lithium Perchlorate	1.1E+01	N	1.6E+02	N			Yes
14797-73-0	~Perchlorate and Perchlorate Salts	1.1E+01	N	1.6E+02	N			Yes
7778-74-7	~Potassium Perchlorate	1.1E+01	N	1.6E+02	N			Yes
7601-89-0	~Sodium Perchlorate	1.1E+01	N	1.6E+02	N			Yes
52645-53-1	Permethrin	6.3E+02	N	8.2E+03	N	1.7E+03	Calculated	Yes
62-44-2	Phenacetin	2.5E+02	C	1.0E+03	C	9.0E-02	Calculated	
13684-63-4	Phenmedipham	3.0E+03	N	3.9E+04	N	1.8E+02	Calculated	Yes
108-95-2	Phenol	3.8E+03	N	4.9E+04	N	3.4E-01	2L or IMAC	Yes
114-26-1	Phenol, 2-(1-methylethoxy)-, methylcarbamate	5.1E+01	N	6.6E+02	N	1.8E-01	Calculated	Yes
92-84-2	Phenothiazine	6.3E+00	N	8.2E+01	N	2.2E-01	Calculated	Yes
103-72-0	Phenyl Isothiocyanate	3.1E+00	N	4.7E+01	N	1.8E-02	Calculated	Yes
108-45-2	Phenylenediamine, m-	7.6E+01	N	9.8E+02	N	2.2E-01	Calculated	Yes
95-54-5	Phenylenediamine, o-	4.5E+00	C	1.9E+01	C	1.6E-03	Calculated	Yes
106-50-3	Phenylenediamine, p-	1.3E+01	N	1.6E+02	N	3.7E-02	Calculated	Yes
90-43-7	Phenylphenol, 2-	2.9E+02	C	1.2E+03	C	5.0E+00	Calculated	
298-02-2	Phorate	2.5E+00	N	3.3E+01	N	2.2E-02	2L or IMAC	Yes
75-44-5	Phosgene	6.5E-02	N	2.7E-01	N			Yes
732-11-6	Phosmet	2.5E+02	N	3.3E+03	N	6.2E-01	Calculated	Yes
	Phosphates, Inorganic							
7758-11-4	~Dipotassium phosphate	1.6E+04	N	2.3E+05	N			Yes
7558-79-4	~Disodium phosphate	1.6E+04	N	2.3E+05	N			Yes
7778-77-0	~Monopotassium phosphate	1.6E+04	N	2.3E+05	N			Yes
7558-80-7	~Monosodium phosphate	1.6E+04	N	2.3E+05	N			Yes
8017-16-1	~Polyphosphoric acid	1.6E+04	N	2.3E+05	N			Yes

North Carolina Department of Environmental Quality

Preliminary Soil Remediation Goals (PSRG)

July 2023

(based on May 2023 USEPA Regional Screening Tables)

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
NA	~Potassium salts of inorganic phosphates	1.3E+04	N	1.6E+05	N			Yes
13845-36-8	~Potassium tripolyphosphate	1.6E+04	N	2.3E+05	N			Yes
7758-16-9	~Sodium acid pyrophosphate	1.6E+04	N	2.3E+05	N			Yes
10124-56-8	~Sodium hexametaphosphate	1.6E+04	N	2.3E+05	N			Yes
68915-31-1	~Sodium polyphosphate	1.6E+04	N	2.3E+05	N			Yes
NA	~Sodium salts of inorganic phosphates	1.3E+04	N	1.6E+05	N			Yes
7785-84-4	~Sodium trimetaphosphate	1.6E+04	N	2.3E+05	N			Yes
7758-29-4	~Sodium tripolyphosphate	1.6E+04	N	2.3E+05	N			Yes
7320-34-5	~Tetrapotassium phosphate	1.6E+04	N	2.3E+05	N			Yes
7722-88-5	~Tetrasodium pyrophosphate	1.6E+04	N	2.3E+05	N			Yes
7778-53-2	~Tripotassium phosphate	1.6E+04	N	2.3E+05	N			Yes
7601-54-9	~Trisodium phosphate	1.6E+04	N	2.3E+05	N			Yes
7803-51-2	Phosphine	4.7E+00	N	7.0E+01	N			Yes
7664-38-2	Phosphoric Acid	1.6E+04	N	2.3E+05	N			Yes
7723-14-0	Phosphorus, White	3.1E-01	N	4.7E+00	N	3.4E-03	Calculated	Yes
	Phthalates							
117-81-7	~Bis(2-ethylhexyl)phthalate	3.9E+01	C	1.6E+02	C	1.4E+01	2L or IMAC	Yes
85-68-7	~Butyl Benzyl Phthalate	2.9E+02	C	1.2E+03	C	2.9E+02	2L or IMAC	Yes
85-70-1	~Butylphthalyl Butylglycolate	1.3E+04	N	1.6E+05	N	3.2E+03	Calculated	Yes
84-74-2	~Dibutyl Phthalate	1.3E+03	N	1.6E+04	N	3.5E+01	2L or IMAC	Yes
84-66-2	~Diethyl Phthalate	1.0E+04	N	1.3E+05	N	4.9E+01	2L or IMAC	Yes
120-61-6	~Dimethylterephthalate	1.6E+03	N	2.3E+04	N	3.7E+00	Calculated	Yes
117-84-0	~Octyl Phthalate, di-N-	1.3E+02	N	1.6E+03	N	5.6E+02	2L or IMAC	Yes
100-21-0	~Phthalic Acid, p-	6.3E+03	N	8.2E+04	N	2.5E+01	Calculated	Yes
85-44-9	~Phthalic Anhydride	2.5E+04	N	3.3E+05	N	6.2E+01	Calculated	Yes
1918-02-1	Picloram	8.8E+02	N	1.1E+04	N	2.7E+00	Calculated	Yes
96-91-3	Picramic Acid (2-Amino-4,6-dinitrophenol)	1.3E+00	N	1.6E+01	N	9.1E-03	2L or IMAC	Yes
88-89-1	Picric Acid (2,4,6-Trinitrophenol)	2.5E+01	N	3.3E+02	N	1.3E+00	Calculated	Yes
29232-93-7	Pirimiphos, Methyl	9.2E+00	N	1.2E+02	N	9.7E-02	Calculated	Yes
36355-01-8	Polybrominated Biphenyls	1.8E-02	C	7.7E-02	C			Yes
	Polychlorinated Biphenyls (PCBs)							
12674-11-2	~Aroclor 1016	8.2E-01	N	1.0E+01	N	9.4E-01	Calculated	Yes
11104-28-2	~Aroclor 1221	2.0E-01	C	8.4E-01	C	5.9E-03	Calculated	
11141-16-5	~Aroclor 1232	1.8E-01	C	7.3E-01	C	5.9E-03	Calculated	
53469-21-9	~Aroclor 1242	2.3E-01	C	9.5E-01	C	5.5E-02	Calculated	
12672-29-6	~Aroclor 1248	2.3E-01	C	9.4E-01	C	5.4E-02	Calculated	
11097-69-1	~Aroclor 1254	2.3E-01	N	9.7E-01	C	9.1E-02	Calculated	Yes

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11096-82-5	~Aroclor 1260	2.4E-01	C	9.9E-01	C	2.4E-01	Calculated	
11126-42-4	~Aroclor 5460	7.0E+00	N	8.8E+01	N	1.4E+01	Calculated	Yes
39635-31-9	~Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	1.3E-01	C	5.2E-01	C	1.3E-01	Calculated	Yes
52663-72-6	~Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	1.2E-01	C	5.1E-01	C	7.5E-02	Calculated	Yes
69782-90-7	~Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	1.2E-01	C	5.1E-01	C	7.7E-02	Calculated	Yes
38380-08-4	~Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	1.2E-01	C	5.1E-01	C	7.7E-02	Calculated	Yes
32774-16-6	~Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	1.2E-04	C	5.1E-04	C	7.5E-05	Calculated	Yes
65510-44-3	~Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	1.2E-01	C	5.0E-01	C	4.7E-02	Calculated	Yes
31508-00-6	~Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	1.2E-01	C	4.9E-01	C	4.6E-02	Calculated	Yes
32598-14-4	~Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	1.2E-01	C	4.9E-01	C	4.7E-02	Calculated	Yes
74472-37-0	~Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	1.2E-01	C	5.1E-01	C	4.7E-02	Calculated	Yes
57465-28-8	~Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	3.6E-05	C	1.5E-04	C	1.4E-05	Calculated	Yes
1336-36-3	~Polychlorinated Biphenyls (high risk)	2.3E-01	C	9.5E-01	C	5.5E-02	Calculated	
1336-36-3	~Polychlorinated Biphenyls (low risk)							
1336-36-3	~Polychlorinated Biphenyls (lowest risk)							
32598-13-3	~Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	3.8E-02	C	1.6E-01	C	8.4E-03	Calculated	Yes
70362-50-4	~Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	1.2E-02	C	4.8E-02	C	2.8E-03	Calculated	Yes
9016-87-9	Polymeric Methylene Diphenyl Diisocyanate (PMDI)	7.4E+06	N	3.1E+07	N			Yes
	Polynuclear Aromatic Hydrocarbons (PAHs)							
83-32-9	~Acenaphthene	7.2E+02	N	9.0E+03	N	1.6E+01	2L or IMAC	Yes
120-12-7	~Anthracene	3.6E+03	N	4.5E+04	N	1.3E+03	2L or IMAC	Yes
56-55-3	~Benz[a]anthracene	1.1E+00	C	2.1E+01	C	3.5E-01	2L or IMAC	
192-97-2	~Benzo(e)pyrene	1.1E+00	N	1.5E+01	N	1.5E+01	Calculated	Yes
205-82-3	~Benzo(j)fluoranthene	4.2E-01	C	1.8E+00	C	7.0E-01	Calculated	
50-32-8	~Benzo[a]pyrene	1.1E-01	C	2.1E+00	C	1.2E-01	2L or IMAC	Yes
205-99-2	~Benzo[b]fluoranthene	1.1E+00	C	2.1E+01	C	1.2E+00	2L or IMAC	
207-08-9	~Benzo[k]fluoranthene	1.1E+01	C	2.1E+02	C	1.2E+01	2L or IMAC	
91-58-7	~Chloronaphthalene, Beta-	9.6E+02	N	1.2E+04	N	5.8E+01	Calculated	Yes
218-01-9	~Chrysene	1.1E+02	C	2.1E+03	C	3.6E+01	2L or IMAC	

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53-70-3	~Dibenz[a,h]anthracene	1.1E-01	C	2.1E+00	C	3.8E-01	2L or IMAC	
192-65-4	~Dibenzo(a,e)pyrene	4.2E-02	C	1.8E-01	C	7.6E-01	Calculated	
57-97-6	~Dimethylbenz(a)anthracene, 7,12-	4.6E-04	C	8.4E-03	C	2.8E-03	Calculated	
206-44-0	~Fluoranthene	4.8E+02	N	6.0E+03	N	6.7E+02	2L or IMAC	Yes
86-73-7	~Fluorene	4.8E+02	N	6.0E+03	N	1.1E+02	2L or IMAC	Yes
193-39-5	~Indeno[1,2,3-cd]pyrene	1.1E+00	C	2.1E+01	C	3.9E+00	2L or IMAC	
90-12-0	~Methylnaphthalene, 1-	1.8E+01	C	7.3E+01	C	1.1E-01	2L or IMAC	Yes
91-57-6	~Methylnaphthalene, 2-	4.8E+01	N	6.0E+02	N	3.1E+00	2L or IMAC	Yes
91-20-3	~Naphthalene	2.1E+00	C	8.8E+00	C	3.9E-01	2L or IMAC	Yes
57835-92-4	~Nitropyrene, 4-	4.2E-01	C	1.8E+00	C	1.0E-01	Calculated	
198-55-0	~Perylene	1.1E+00	N	1.4E+01	N	1.5E+01	Calculated	Yes
129-00-0	~Pyrene	3.6E+02	N	4.5E+03	N	4.4E+02	2L or IMAC	Yes
67747-09-5	Prochloraz	3.6E+00	C	1.5E+01	C	2.4E-02	Calculated	Yes
26399-36-0	Profluralin	9.4E+01	N	1.4E+03	N	5.1E+01	Calculated	Yes
1610-18-0	Prometon	1.9E+02	N	2.5E+03	N	1.0E+00	Calculated	Yes
7287-19-6	Prometryn	5.1E+02	N	6.6E+03	N	8.5E+00	Calculated	Yes
23950-58-5	Pronamide	9.5E+02	N	1.2E+04	N	1.1E+01	Calculated	Yes
1918-16-7	Propachlor	1.6E+02	N	2.1E+03	N	1.1E+00	Calculated	Yes
709-98-8	Propanil	6.3E+01	N	8.2E+02	N	3.9E-01	Calculated	Yes
2312-35-8	Propargite	2.9E+00	C	1.2E+01	C	2.7E-01	Calculated	Yes
107-19-7	Propargyl Alcohol	3.1E+01	N	4.7E+02	N	5.7E-02	Calculated	Yes
139-40-2	Propazine	2.5E+02	N	3.3E+03	N	2.5E+00	Calculated	Yes
122-42-9	Propham	2.5E+02	N	3.3E+03	N	1.8E+00	Calculated	Yes
60207-90-1	Propiconazole	1.3E+03	N	1.6E+04	N	4.6E+01	Calculated	Yes
123-38-6	Propionaldehyde	1.6E+01	N	6.7E+01	N			Yes
103-65-1	Propyl benzene	7.8E+02	N	5.1E+03	N	2.6E+00	2L or IMAC	Yes
115-07-1	Propylene	4.7E+02	N	2.0E+03	N			Yes
57-55-6	Propylene Glycol	2.5E+05	N	3.3E+06	N	4.0E+02	2L or IMAC	Yes
6423-43-4	Propylene Glycol Dinitrate	3.3E+06	N	1.4E+07	N			Yes
107-98-2	Propylene Glycol Monomethyl Ether	8.3E+03	N	7.7E+04	N	2.0E+01	Calculated	Yes
75-56-9	Propylene Oxide	2.1E+00	C	9.9E+00	C	6.1E-04	Calculated	Yes
110-86-1	Pyridine	1.6E+01	N	2.3E+02	N	4.8E-02	Calculated	Yes
13593-03-8	Quinalphos	6.3E+00	N	8.2E+01	N	6.0E-01	Calculated	Yes
91-22-5	Quinoline	1.8E-01	C	7.7E-01	C	7.7E-04	Calculated	
76578-14-8	Quizalofop-ethyl	1.1E+02	N	1.5E+03	N	2.0E+01	Calculated	Yes
E715557	Refractory Ceramic Fibers (units in fibers)							
10453-86-8	Resmethrin	3.8E+02	N	4.9E+03	N	2.6E+03	Calculated	Yes
299-84-3	Ronnel	7.8E+02	N	1.2E+04	N	6.4E+01	Calculated	Yes
83-79-4	Rotenone	5.1E+01	N	6.6E+02	N	2.9E+02	Calculated	Yes
94-59-7	Safrole	5.5E-01	C	1.0E+01	C	2.0E-03	Calculated	
7783-00-8	Selenious Acid	7.8E+01	N	1.2E+03	N			Yes
7782-49-2	Selenium	7.8E+01	N	1.2E+03	N	2.1E+00	2L or IMAC	Yes
7446-34-6	Selenium Sulfide	7.8E+01	N	1.2E+03	N			Yes

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74051-80-2	Sethoxydim	1.8E+03	N	2.3E+04	N	1.8E+02	Calculated	Yes
7631-86-9	Silica (crystalline, respirable)	3.7E+07	N	1.6E+08	N			Yes
7440-22-4	Silver	7.8E+01	N	1.2E+03	N	3.4E+00	2L or IMAC	Yes
122-34-9	Simazine	4.5E+00	C	1.9E+01	C	3.9E-02	2L or IMAC	Yes
62476-59-9	Sodium Acifluorfen	1.6E+02	N	2.1E+03	N	1.4E+01	Calculated	Yes
26628-22-8	Sodium Azide	6.3E+01	N	9.3E+02	N			Yes
148-18-5	Sodium Diethyldithiocarbamate	2.0E+00	C	8.5E+00	C	1.6E-03	Calculated	Yes
7681-49-4	Sodium Fluoride	7.8E+02	N	1.2E+04	N	5.3E+02	Calculated	Yes
62-74-8	Sodium Fluoroacetate	2.5E-01	N	3.3E+00	N	5.7E-04	Calculated	Yes
13718-26-8	Sodium Metavanadate	1.6E+01	N	2.3E+02	N			Yes
13472-45-2	Sodium Tungstate	1.3E+01	N	1.9E+02	N			Yes
10213-10-2	Sodium Tungstate Dihydrate	1.3E+01	N	1.9E+02	N			Yes
961-11-5	Stirofos (Tetrachlorovinphos)	2.3E+01	C	9.6E+01	C	8.6E-02	Calculated	Yes
7440-24-6	Strontium, Stable	9.4E+03	N	1.4E+05	N	1.4E+03	2L or IMAC	Yes
57-24-9	Strychnine	3.8E+00	N	4.9E+01	N	4.6E-01	Calculated	Yes
100-42-5	Styrene	1.2E+03	N	7.3E+03	N	1.5E+00	2L or IMAC	Yes
57964-39-3	Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	3.8E+01	N	4.9E+02	N			Yes
57964-40-6	Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	3.8E+01	N	4.9E+02	N			Yes
126-33-0	Sulfolane	1.3E+01	N	1.6E+02	N	3.1E-02	Calculated	Yes
80-07-9	Sulfonylbis(4-chlorobenzene), 1,1'-	1.0E+01	N	1.3E+02	N	6.6E-01	Calculated	Yes
7446-11-9	Sulfur Trioxide	1.2E+07	N	5.2E+07	N			Yes
7664-93-9	Sulfuric Acid	1.2E+07	N	5.2E+07	N			Yes
140-57-8	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	2.2E+01	C	9.2E+01	C	3.2E-01	Calculated	Yes
21564-17-0	TCMTB	3.8E+02	N	4.9E+03	N	2.9E+01	Calculated	Yes
34014-18-1	Tebuthiuron	8.8E+02	N	1.1E+04	N	2.8E+00	Calculated	Yes
3383-96-8	Temephos	2.5E+02	N	3.3E+03	N	5.3E+02	Calculated	Yes
5902-51-2	Terbacil	1.6E+02	N	2.1E+03	N	5.5E-01	Calculated	Yes
13071-79-9	Terbufos	3.9E-01	N	5.8E+00	N	7.7E-03	Calculated	Yes
886-50-0	Terbutryn	1.3E+01	N	1.6E+02	N	2.0E-01	Calculated	Yes
540-88-5	Tert-Butyl Acetate	8.6E+00	C	3.8E+01	C	3.2E-02	Calculated	
5436-43-1	Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	1.3E+00	N	1.6E+01	N	3.7E-01	Calculated	Yes
95-94-3	Tetrachlorobenzene, 1,2,4,5-	4.7E-01	N	7.0E+00	N	1.9E-01	2L or IMAC	Yes
630-20-6	Tetrachloroethane, 1,1,1,2-	2.1E+00	C	9.3E+00	C	7.6E-03	2L or IMAC	Yes
79-34-5	Tetrachloroethane, 1,1,2,2-	6.4E-01	C	2.8E+00	C	1.6E-03	2L or IMAC	Yes
127-18-4	Tetrachloroethylene	1.7E+01	N	8.2E+01	N	6.3E-03	2L or IMAC	Yes
58-90-2	Tetrachlorophenol, 2,3,4,6-	3.8E+02	N	4.9E+03	N	3.0E+00	2L or IMAC	Yes

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5216-25-1	Tetrachlorotoluene, p- alpha, alpha, alpha-	4.3E-02	C	2.0E-01	C	1.5E-04	Calculated	Yes
3689-24-5	Tetraethyl Dithiopyrophosphate	6.3E+00	N	8.2E+01	N	5.1E-02	Calculated	Yes
811-97-2	Tetrafluoroethane, 1,1,1,2-	2.2E+04	N	9.1E+04	N			Yes
16853-36-4	Tetramethylphosphoramidate, -N,N,N',N" (TMPA)	1.3E+00	N	1.6E+01	N			Yes
479-45-8	Tetryl (Trinitrophenylmethylnitramine)	3.1E+01	N	4.7E+02	N	2.6E+00	Calculated	Yes
1314-32-5	Thallic Oxide	3.1E-01	N	4.7E+00	N			Yes
10102-45-1	Thallium (I) Nitrate	1.6E-01	N	2.3E+00	N			Yes
7440-28-0	Thallium (Soluble Salts)	1.6E-01	N	2.3E+00	N	2.8E+00	2L or IMAC	Yes
563-68-8	Thallium Acetate	1.6E-01	N	2.3E+00	N	2.8E-04	Calculated	Yes
6533-73-9	Thallium Carbonate	2.5E-01	N	3.3E+00	N	2.9E-04	Calculated	Yes
7791-12-0	Thallium Chloride	1.6E-01	N	2.3E+00	N			Yes
12039-52-0	Thallium Selenite	1.6E-01	N	2.3E+00	N			Yes
7446-18-6	Thallium Sulfate	3.1E-01	N	4.7E+00	N			Yes
79277-27-3	Thifensulfuron-methyl	5.4E+02	N	7.1E+03	N	1.8E+00	Calculated	Yes
28249-77-6	Thiobencarb	1.3E+02	N	1.6E+03	N	4.8E+00	Calculated	Yes
111-48-8	Thiodiglycol	1.1E+03	N	1.6E+04	N	2.0E+00	Calculated	Yes
39196-18-4	Thiofanox	3.8E+00	N	4.9E+01	N	1.4E-02	Calculated	Yes
23564-05-8	Thiophanate, Methyl	4.5E+01	C	1.9E+02	C	5.0E-02	Calculated	Yes
137-26-8	Thiram	1.9E+02	N	2.5E+03	N	3.0E+00	Calculated	Yes
7440-31-5	Tin	9.4E+03	N	1.4E+05	N	1.0E+04	2L or IMAC	Yes
7550-45-0	Titanium Tetrachloride	1.2E+06	N	5.2E+06	N			Yes
108-88-3	Toluene	9.9E+02	N	9.7E+03	N	8.3E+00	2L or IMAC	Yes
584-84-9	Toluene-2,4-diisocyanate	1.4E+00	N	5.7E+00	N	2.7E-01	Calculated	Yes
95-70-5	Toluene-2,5-diamine	2.5E+00	N	1.3E+01	C	1.2E-03	Calculated	Yes
91-08-7	Toluene-2,6-diisocyanate	1.1E+00	N	4.7E+00	N	2.8E-01	Calculated	Yes
2687-25-4	Toluenediamine, 2,3-	1.3E+00	N	1.6E+01	N	4.4E-03	Calculated	Yes
496-72-0	Toluenediamine, 3,4-	1.3E+00	N	1.6E+01	N	4.4E-03	Calculated	Yes
99-94-5	Toluic Acid, p-	6.3E+01	N	8.2E+02	N	1.8E-01	2L or IMAC	Yes
95-53-4	Toluidine, o- (Methylaniline, 2-)	3.4E+01	C	1.4E+02	C	1.9E-02	Calculated	
106-49-0	Toluidine, p-	1.8E+01	C	7.7E+01	C	9.9E-03	Calculated	Yes
E1790670	Total Petroleum Hydrocarbons (Aliphatic High)	4.7E+04	N	7.0E+05	N			Yes
E1790666	Total Petroleum Hydrocarbons (Aliphatic Low)	5.1E+01	N	4.0E+02	N	5.6E+00	2L or IMAC	Yes
E1790668	Total Petroleum Hydrocarbons (Aliphatic Medium)	2.0E+01	N	9.3E+01	N	1.9E+02	2L or IMAC	Yes

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Preliminary Soil Remediation Goals (PSRG)

July 2023

(based on May 2023 USEPA Regional Screening Tables)

This table must be used with the PSRG Notes/ See Compound-Specific Notes for chemicals in *blue*.

CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
E1790676	Total Petroleum Hydrocarbons (Aromatic High)	3.6E+00	N	4.5E+01	N			Yes
E1790674	Total Petroleum Hydrocarbons (Aromatic Medium)	6.2E+01	N	3.7E+02	N			Yes
8001-35-2	Toxaphene	4.9E-01	C	2.1E+00	C	9.3E-02	2L or IMAC	Yes
E1841606	Toxaphene, Weathered	3.8E-01	N	4.9E+00	N	6.5E-01	Calculated	Yes
66841-25-6	Tralomethrin	9.5E+01	N	1.2E+03	N	4.0E+02	Calculated	Yes
688-73-3	Tri-n-butyltin	4.7E+00	N	7.0E+01	N	9.1E-01	Calculated	Yes
102-76-1	Triacetin	1.0E+06	N	1.3E+07	N	3.2E+03	Calculated	Yes
43121-43-3	Triadimefon	4.3E+02	N	5.6E+03	N	3.8E+00	Calculated	Yes
2303-17-5	Triallate	9.7E+00	C	4.5E+01	C	2.2E-02	Calculated	Yes
82097-50-5	Triasulfuron	1.3E+02	N	1.6E+03	N	1.5E+00	Calculated	Yes
101200-48-0	Tribenuron-methyl	1.0E+02	N	1.3E+03	N	4.4E-01	Calculated	Yes
615-54-3	Tribromobenzene, 1,2,4-	7.8E+01	N	1.2E+03	N	1.0E+00	Calculated	Yes
118-79-6	Tribromophenol, 2,4,6-	1.1E+02	N	1.5E+03	N	2.3E+00	Calculated	Yes
78-48-8	Tribufos	2.5E+00	N	3.3E+01	N	1.4E-01	Calculated	Yes
126-73-8	Tributyl Phosphate	6.0E+01	C	2.6E+02	C	3.8E-01	Calculated	Yes
E1790679	Tributyltin Compounds	3.8E+00	N	4.9E+01	N			Yes
56-35-9	Tributyltin Oxide	3.8E+00	N	4.9E+01	N	2.2E+03	Calculated	Yes
10025-85-1	Trichloramine							
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.4E+03	N	6.0E+03	N	9.8E+03	2L or IMAC	Yes
76-03-9	Trichloroacetic Acid	7.8E+00	C	3.3E+01	C	2.1E-03	Calculated	Yes
33663-50-2	Trichloroaniline HCl, 2,4,6-	1.9E+01	C	7.9E+01	C	6.6E-02	Calculated	
634-93-5	Trichloroaniline, 2,4,6-	3.8E-01	N	4.9E+00	N	3.8E-02	Calculated	Yes
87-61-6	Trichlorobenzene, 1,2,3-	1.3E+01	N	1.9E+02	N	3.3E-01	Calculated	Yes
120-82-1	Trichlorobenzene, 1,2,4-	1.2E+01	N	5.5E+01	N	4.1E+00	2L or IMAC	Yes
71-55-6	Trichloroethane, 1,1,1-	1.7E+03	N	7.6E+03	N	1.4E+00	2L or IMAC	Yes
79-00-5	Trichloroethane, 1,1,2-	3.2E-01	N	1.3E+00	N	3.9E-03	2L or IMAC	Yes
79-01-6	Trichloroethylene	8.7E-01	N	4.0E+00	N	2.1E-02	2L or IMAC	Yes
75-69-4	Trichlorofluoromethane	4.7E+03	N	7.0E+04	N	2.5E+01	2L or IMAC	Yes
95-95-4	Trichlorophenol, 2,4,5-	1.3E+03	N	1.6E+04	N	4.3E+00	2L or IMAC	Yes
88-06-2	Trichlorophenol, 2,4,6-	1.3E+01	N	1.6E+02	N	7.7E-02	2L or IMAC	Yes
93-76-5	Trichlorophenoxyacetic Acid, 2,4,5-	1.3E+02	N	1.6E+03	N	5.8E-01	Calculated	Yes
93-72-1	Trichlorophenoxypropionic acid, -2,4,5	1.0E+02	N	1.3E+03	N	5.5E-01	2L or IMAC	Yes
598-77-6	Trichloropropane, 1,1,2-	7.8E+01	N	1.2E+03	N	2.7E-01	Calculated	Yes
96-18-4	Trichloropropane, 1,2,3-	5.1E-03	C	1.1E-01	C	4.3E-05	2L or IMAC	Yes
96-19-5	Trichloropropene, 1,2,3-	1.6E-01	N	6.5E-01	N	2.1E-01	Calculated	Yes
1330-78-5	Tricresyl Phosphate (TCP)	2.5E+02	N	3.3E+03	N	2.6E+02	Calculated	Yes
58138-08-2	Tridiphane	3.8E+01	N	4.9E+02	N	3.0E+00	Calculated	Yes
121-44-8	Triethylamine	2.5E+01	N	1.0E+02	N			Yes
112-27-6	Triethylene Glycol	2.5E+04	N	3.3E+05	N	6.2E+01	Calculated	Yes

North Carolina Department of Environmental Quality

Preliminary Soil Remediation Goals (PSRG)

July 2023

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CAS #	Chemical Name (See companion notes for shaded chemicals)	Residential Health Based PSRG (mg/kg)	Basis	Industrial/ Commercial Health Based PSRG (mg/kg)	Basis	Protection of Groundwater PSRG (mg/kg)	Basis	Does Chemical Have a Non-Cancer Effect?
420-46-2	Trifluoroethane, 1,1,1-	3.1E+03	N	1.3E+04	N			Yes
1582-09-8	Trifluralin	9.0E+01	C	4.2E+02	C	3.0E+00	Calculated	Yes
512-56-1	Trimethyl Phosphate	2.7E+01	C	1.1E+02	C	7.7E-03	Calculated	Yes
526-73-8	Trimethylbenzene, 1,2,3-	7.0E+01	N	4.3E+02	N	2.1E+00	Calculated	Yes
95-63-6	Trimethylbenzene, 1,2,4-	6.3E+01	N	3.7E+02	N	1.2E+01	2L or IMAC	Yes
108-67-8	Trimethylbenzene, 1,3,5-	5.6E+01	N	3.2E+02	N	1.1E+01	2L or IMAC	Yes
25167-70-8	Trimethylpentene, 2,4,4-	1.6E+02	N	2.3E+03	N	4.7E+00	Calculated	Yes
99-35-4	Trinitrobenzene, 1,3,5-	4.5E+02	N	6.5E+03	N	1.5E+01	Calculated	Yes
118-96-7	Trinitrotoluene, 2,4,6-	7.3E+00	N	9.6E+01	C	1.4E-01	Calculated	Yes
791-28-6	Triphenylphosphine Oxide	2.5E+02	N	3.3E+03	N	1.2E+01	Calculated	Yes
13674-87-8	Tris(1,3-Dichloro-2-propyl) Phosphate	2.5E+02	N	3.3E+03	N	6.3E+01	Calculated	Yes
13674-84-5	Tris(1-chloro-2-propyl)phosphate	1.3E+02	N	1.6E+03	N	4.8E+00	Calculated	Yes
126-72-7	Tris(2,3-dibromopropyl)phosphate	2.8E-01	C	1.3E+00	C	6.0E-03	Calculated	
115-96-8	Tris(2-chloroethyl)phosphate	2.7E+01	C	1.1E+02	C	3.4E-02	Calculated	Yes
78-42-2	Tris(2-ethylhexyl)phosphate	1.7E+02	C	7.2E+02	C	1.1E+03	Calculated	Yes
7440-33-7	Tungsten	1.3E+01	N	1.9E+02	N	8.4E+00	Calculated	Yes
7440-61-1	Uranium	3.1E+00	N	4.7E+01	N	6.3E+00	Calculated	Yes
51-79-6	Urethane	1.2E-01	C	2.3E+00	C	1.6E-04	Calculated	
1314-62-1	Vanadium Pentoxide	1.4E+02	N	2.1E+03	N			Yes
7440-62-2	Vanadium and Compounds	7.8E+01	N	1.2E+03	N	1.4E+02	2L or IMAC	Yes
1929-77-7	Vernolate	1.6E+01	N	2.3E+02	N	1.1E-01	Calculated	Yes
50471-44-8	Vinclozolin	1.5E+01	N	2.0E+02	N	1.3E-01	Calculated	Yes
108-05-4	Vinyl Acetate	1.9E+02	N	8.2E+02	N	3.7E-01	2L or IMAC	Yes
593-60-2	Vinyl Bromide	2.7E-01	C	1.2E+00	C			Yes
75-01-4	Vinyl Chloride	6.1E-02	C	1.7E+00	C	2.1E-04	2L or IMAC	Yes
81-81-2	Warfarin	3.8E+00	N	4.9E+01	N	4.4E-02	Calculated	Yes
108-38-3	Xylene, m-	1.2E+02	N	5.0E+02	N	9.8E+00	2L or IMAC	Yes
95-47-6	Xylene, o-	1.4E+02	N	5.9E+02	N	9.8E+00	2L or IMAC	Yes
106-42-3	Xylene, p-	1.2E+02	N	5.1E+02	N	9.8E+00	2L or IMAC	Yes
1330-20-7	Xylenes	1.2E+02	N	5.3E+02	N	9.9E+00	2L or IMAC	Yes
1314-84-7	Zinc Phosphide	4.7E+00	N	7.0E+01	N			Yes
7440-66-6	Zinc and Compounds	4.7E+03	N	7.0E+04	N	1.2E+03	2L or IMAC	Yes
12122-67-7	Zineb	6.3E+02	N	8.2E+03	N	2.0E+01	Calculated	Yes
7440-67-7	Zirconium	1.3E+00	N	1.9E+01	N	1.7E+01	Calculated	Yes