

\*\*\* DRAFT – NOT FOR FILING \*\*\*

3745-506-704

Construction and demolition debris facility - ground water assessment program parameter list.

This rule contains the common names of parameters that are widely used in government regulation, scientific publications, and commerce. However, synonyms may exist for many parameters. The chemical abstract service registry number (CAS RN) for each parameter has been provided.

(A) Metals. The metals include all species in ground water that contain the element.

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| <u>Parameter:</u>    | <u>CAS RN:</u>   |
|----------------------|------------------|
| <u>1) Aluminum</u>   | <u>7429-90-5</u> |
| <u>2) Antimony</u>   | <u>7440-36-0</u> |
| <u>3) Arsenic</u>    | <u>7440-38-2</u> |
| <u>4) Barium</u>     | <u>7440-39-3</u> |
| <u>5) Beryllium</u>  | <u>7440-41-7</u> |
| <u>6) Cadmium</u>    | <u>7440-43-9</u> |
| <u>7) Chromium</u>   | <u>7440-47-3</u> |
| <u>8) Cobalt</u>     | <u>7440-48-4</u> |
| <u>9) Copper</u>     | <u>7440-50-8</u> |
| <u>10) Lead</u>      | <u>7439-92-1</u> |
| <u>11) Mercury</u>   | <u>7439-97-6</u> |
| <u>12) Nickel</u>    | <u>7440-02-0</u> |
| <u>13) Selenium</u>  | <u>7782-49-2</u> |
| <u>14) Silver</u>    | <u>7440-22-4</u> |
| <u>15) Strontium</u> | <u>7440-24-6</u> |
| <u>16) Thallium</u>  | <u>7440-28-0</u> |
| <u>17) Tin</u>       | <u>7440-31-5</u> |
| <u>18) Vanadium</u>  | <u>7440-62-2</u> |
| <u>19) Zinc</u>      | <u>7440-66-6</u> |

(B) Other inorganic parameters.

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| <u>Parameter:</u>         | <u>CAS RN:</u>    |
|---------------------------|-------------------|
| <u>20) Ammonia</u>        | <u>7664-41-7</u>  |
| <u>21) Boron</u>          | <u>7440-42-8</u>  |
| <u>22) Calcium</u>        | <u>7440-70-2</u>  |
| <u>23) Chloride</u>       | <u>16887-00-6</u> |
| <u>24) Cyanide (free)</u> | <u>57-12-5</u>    |
| <u>25) Iron</u>           | <u>7439-89-6</u>  |
| <u>2) Magnesium</u>       | <u>7439-95-2</u>  |
| <u>27) Manganese</u>      | <u>7439-96-5</u>  |

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|                                     |                            |
|-------------------------------------|----------------------------|
| <a href="#">28) Nitrate/Nitrite</a> |                            |
| <a href="#">29) Potassium</a>       | <a href="#">7440-09-7</a>  |
| <a href="#">30) Sodium</a>          | <a href="#">7440-23-5</a>  |
| <a href="#">31) Sulfate</a>         | <a href="#">14808-79-8</a> |
| <a href="#">32) Sulfide</a>         | <a href="#">18496-25-8</a> |

[\(C\) Other parameters.](#)

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|  |  |
|--|--|
| <a href="#">Parameter:</a>                 |  |
| <a href="#">33) pH</a>                     |  |
| <a href="#">34) Total alkalinity</a>       |  |
| <a href="#">35) Total dissolved solids</a> |  |

[\(D\) Volatile organic compounds.](#)

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|   |                          |
|---|--------------------------|
| <a href="#">Parameter:</a>  | <a href="#">CAS RN:</a>  |
| <a href="#">36) Acetone; 2-Propanone</a>  | <a href="#">67-64-1</a>  |
| <a href="#">37) Benzene</a>   | <a href="#">71-43-2</a>  |
| <a href="#">38) Bromodichloromethane; Dibromochloromethane</a>                    | <a href="#">75-27-4</a>  |
| <a href="#">39) Carbon disulfide</a>  | <a href="#">75-15-0</a>  |
| <a href="#">40) Carbon tetrachloride; Tetrachloromethane</a>                      | <a href="#">56-23-5</a>  |
| <a href="#">41) Chlorobenzene</a>   | <a href="#">108-90-7</a> |
| <a href="#">42) Chloroethane; Ethyl chloride</a>                                  | <a href="#">75-00-3</a>  |
| <a href="#">43) Chloroform; Trichloromethane</a>                                  | <a href="#">67-66-3</a>  |
| <a href="#">44) 2-Chlorotoluene</a>   | <a href="#">95-49-8</a>  |
| <a href="#">45) 4-Chlorotoluene</a>   | <a href="#">106-43-4</a> |
| <a href="#">46) o-Dichlorobenzene; 1,2-Dichlorobenzene</a>                        | <a href="#">95-50-1</a>  |
| <a href="#">47) p-Dichlorobenzene; 1,4-Dichlorobenzene</a>                        | <a href="#">106-46-7</a> |
| <a href="#">48) Dichlorodifluoromethane; CFC 12</a>                               | <a href="#">75-71-8</a>  |
| <a href="#">49) 1,1-Dichloroethane; Ethylidene chloride</a>                       | <a href="#">75-34-3</a>  |
| <a href="#">50) 1,2-Dichloroethane; Ethylene dichloride</a>                       | <a href="#">107-06-2</a> |
| <a href="#">51) 1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride</a> | <a href="#">75-35-4</a>  |
| <a href="#">52) cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene</a>              | <a href="#">156-59-2</a> |
| <a href="#">53) trans-1,2-Dichloroethylene; trans-1,2-Dichloro ethene</a>         | <a href="#">156-60-5</a> |
| <a href="#">54) 1,2-Dichloropropane; Propylene dichloride</a>                     | <a href="#">78-87-5</a>  |
| <a href="#">55) 1,1-Dichloropropene; 1,1-Dichloro-1-propene</a>                   | <a href="#">563-58-6</a> |
| <a href="#">56) Ethylbenzene</a>  | <a href="#">100-41-4</a> |
| <a href="#">57) 2-Hexanone; Methyl butyl ketone</a>                               | <a href="#">591-78-6</a> |
| <a href="#">58) Isopropylbenzene; Cumene</a>                                      | <a href="#">98-82-8</a>  |
| <a href="#">59) 4-Isopropyltoluene; p-Isopropyltoluene</a>                        | <a href="#">99-87-6</a>  |
| <a href="#">60) Methyl chloride; Chloromethane</a>                                | <a href="#">74-87-3</a>  |
| <a href="#">61) Methyl ethyl ketone; MEK; 2-Butanone</a>                          | <a href="#">78-93-3</a>  |

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|---|----------------------------|
| <a href="#">62) 4-Methyl-2-pentanone; Methyl isobutyl ketone</a>              | <a href="#">108-10-1</a>   |
| <a href="#">63) Methylene chloride; Dichloromethane</a>                       | <a href="#">75-09-2</a>    |
| <a href="#">64) N-Butylbenzene</a>  | <a href="#">104-51-8</a>   |
| <a href="#">65) N-Propylbenzene</a>   | <a href="#">103-65-1</a>   |
| <a href="#">66) Sec-Butylbenzene</a>  | <a href="#">135-98-8</a>   |
| <a href="#">67) Styrene; Ethenylbenzene</a>                                   | <a href="#">100-42-5</a>   |
| <a href="#">68) Tert-Butylbenzene</a>   | <a href="#">98-06-6</a>    |
| <a href="#">69) 1,1,1,2-Tetrachloroethane</a>                                 | <a href="#">630-20-6</a>   |
| <a href="#">70) Tetrachloroethylene; Tetrachloroethene; Perchloroethylene</a> | <a href="#">127-18-4</a>   |
| <a href="#">71) Toluene; Methylbenzene</a>                                    | <a href="#">108-88-3</a>   |
| <a href="#">72) 1,2,3-Trichlorobenzene</a>                                    | <a href="#">87-61-6</a>    |
| <a href="#">73) 1,2,4-Trichlorobenzene</a>                                    | <a href="#">120-82-1</a>   |
| <a href="#">74) 1,1,1-Trichloroethane; Methylchloroform</a>                   | <a href="#">71-55-6</a>    |
| <a href="#">75) 1,1,2-Trichloroethane</a>                                     | <a href="#">79-00-5</a>    |
| <a href="#">76) Trichloroethylene; Trichloroethene</a>                        | <a href="#">79-01-6</a>    |
| <a href="#">77) Trichlorofluoromethane; CFC-11</a>                            | <a href="#">75-69-4</a>    |
| <a href="#">78) 1,2,4-Trimethylbenzene</a>                                    | <a href="#">95-63-6</a>    |
| <a href="#">79) 1,3,5-Trimethylbenzene</a>                                    | <a href="#">108-67-8</a>   |
| <a href="#">80) Vinyl chloride; Chloroethene</a>                              | <a href="#">75-01-4</a>    |
| <a href="#">81) Xylene (total); Dimethylbenzene</a>                           | <a href="#">See Note 1</a> |

[\(E\) Semi-volatile organic compounds.](#)

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| <a href="#">Parameter:</a>  | <a href="#">CAS RN:</a>  |
|---|--------------------------|
| <a href="#">82) Acenaphthene; 1,2-Dihydroacenaphthylene</a>                                     | <a href="#">83-32-9</a>  |
| <a href="#">83) Acetophenone; 1-Phenylethanone</a>  | <a href="#">98-86-2</a>  |
| <a href="#">84) Anthracene</a>  | <a href="#">120-12-7</a> |
| <a href="#">85) Benzyl alcohol; Benzenemethanol</a>   | <a href="#">100-51-6</a> |
| <a href="#">86) bis(2-Chloroethoxy)methane; 1,1'-[methylenebis(oxy)]bis[2-chloroethane]</a>     | <a href="#">111-91-1</a> |
| <a href="#">87) o-Cresol; 2-Methylphenol</a>  | <a href="#">95-48-7</a>  |
| <a href="#">88) p-Cresol; 4-Methylphenol</a>  | <a href="#">106-44-5</a> |
| <a href="#">89) Dibenzofuran</a>  | <a href="#">132-64-9</a> |
| <a href="#">90) Di-n-butyl phthalate; 1,2-Benzenedicarboxylic acid dibutyl ester</a>            | <a href="#">84-74-2</a>  |
| <a href="#">91) Diethyl phthalate; 1,2-Benzenedicarboxylic acid, Diethyl ester</a>              | <a href="#">84-66-2</a>  |
| <a href="#">92) 2,4-Dimethylphenol; m-Xylenol</a>   | <a href="#">105-67-9</a> |
| <a href="#">93) Disulfoton; Phosphorodithioic acid O,O-diethyl S-[2-(ethylthio)ethyl] ester</a> | <a href="#">298-04-4</a> |
| <a href="#">94) Hexachlorobutadiene; 1,1,2,3,4,4-Hexachloro-1,3-butadiene</a>                   | <a href="#">87-68-3</a>  |
| <a href="#">95) Isobutyl alcohol; 2-Methyl-1-propanol</a>                                       | <a href="#">78-83-1</a>  |
| <a href="#">96) Methoxychlor; 1,1'-(2,2,2-Trichloroethylidene)bis [4-Methoxybenzene]</a>        | <a href="#">72-43-5</a>  |
| <a href="#">97) Naphthalene</a>   | <a href="#">91-20-3</a>  |

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|                                       |                          |
|---------------------------------------|--------------------------|
| <a href="#">98) Pentachlorophenol</a> | <a href="#">87-86-5</a>  |
| <a href="#">99) Phenol</a>            | <a href="#">108-95-2</a> |

[\(F\) Pesticides and herbicides.](#)

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| <a href="#">Parameter:</a>  | <a href="#">CAS RN:</a>    |
|---|----------------------------|
| <a href="#">100) Aldrin</a>   | <a href="#">309-00-2</a>   |
| <a href="#">101) alpha-BHC</a>  | <a href="#">319-84-6</a>   |
| <a href="#">102) beta-BHC</a>   | <a href="#">319-85-7</a>   |
| <a href="#">103) delta-BHC</a>  | <a href="#">319-86-8</a>   |
| <a href="#">104) gamma-BHC</a>  | <a href="#">58-89-9</a>    |
| <a href="#">105) Chlordane</a>  | <a href="#">See Note 2</a> |
| <a href="#">106) 4-chloro-o-tolyloxyacetic acid; MCPA</a>   | <a href="#">94-74-6</a>    |
| <a href="#">107) 2-(4-Chlorophenoxy)-2-methylpropanoic acid; MCPP</a>                                 | <a href="#">93-65-2</a>    |
| <a href="#">108) 2,4-DB; 4-(2,4-dichlorophenoxy)butyric acid; Butoxone</a>                            | <a href="#">94-68-1</a>    |
| <a href="#">109) 4,4'-DDE; 1,1'-(2,2-Dichloroethylenylidene)bis[4-chlorobenzene]</a>                  | <a href="#">72-55-9</a>    |
| <a href="#">110) 2,4-D; 2,4-Dichlorophenoxyacetic acid</a>  | <a href="#">94-75-7</a>    |
| <a href="#">111) 4,4'-DDT; 1,1'-(2,2,2-Trichloroethylidene)bis[4-chlorobenzene]</a>                   | <a href="#">50-29-3</a>    |
| <a href="#">112) 3,6-Dichloro-o-anisic acid; Dicamba; MDBA</a>  | <a href="#">1918-00-9</a>  |
| <a href="#">113) Dieldrin</a>   | <a href="#">60-57-1</a>    |
| <a href="#">114) 2,4-DP; Dichloroprop; (RS)-2-(2,4-dichlorophenoxy)propionic acid</a>                 | <a href="#">120-36-5</a>   |
| <a href="#">115) Heptachlor; 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene</a> | <a href="#">76-44-8</a>    |
| <a href="#">116) Heptachlor epoxide</a>   | <a href="#">1024-57-3</a>  |
| <a href="#">117) Silvex; 2,4,5-TP; 2-(2,4,5-Trichlorophenoxy)propanoic acid</a>                       | <a href="#">93-72-1</a>    |

[Note 1: Xylene \(total\):](#) Where "total" is entered, all species in ground water that contain this element are included. This entry includes o-xylene (CAS RN 96-47-6), m-xylene (CAS RN 108-38-3), p-xylene (CAS RN 106-42-3), and unspecified xylenes (dimethylbenzenes) (CAS RN 1330-20-7).

[Note 2: Chlordane:](#) This entry includes alpha chlordane (CAS RN 5103-71-9), beta chlordane (CAS RN 5103-74-2), gamma chlordane (CAS RN 5566-34-7), and parameters of chlordane (CAS RN 57-74-9 and CAS RN 12789-03-6).