

# Sanaterre Environmental

## The Dutch Target and Intervention Values<sup>§</sup>

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The Dutch values differ from those developed in the UK in that the intention is to allow the return of contaminated land to any potential use, rather than tailoring the level of remediation to the intended use of the land. The most recent values include general targets and intervention values ([Table 1](#)) as well as indicators of severe contamination ([Table 2](#)).

The interpretation of the values is similar to that of the UK [ICRCL](#) values.

1. The TARGET VALUE is the baseline concentration value below which compounds and/or elements are known or assumed not to affect the natural properties of the soil.
2. The INTERVENTION VALUE is the maximum tolerable concentration above which remediation is required. This occurs if one or more compounds in concentrations equal to or higher than the intervention value is found in more than 25 m<sup>3</sup> of soil or 1000 m<sup>3</sup> of ground water.
3. The MIDDLE VALUE = (target value + intervention value) x 0.5. This is regarded as a threshold value for further investigation.

### ADJUSTMENTS TO VALUES FOR DIFFERENT SOIL TYPES

Values for soil/sediment are expressed as the concentration in a standard soil (10% organic matter and 25% clay). Target and intervention values vary according to the clay and organic matter content of the soil. The [formulas](#) for these have been included with the notes on the table.

It is strongly recommended that you obtain a copy of the [source document](#) as it is a long and complex document. This is only a summary of Annex A of the original circular.

**Table 1. Target values and intervention values for soil remediation soil/sediment and groundwater for metals, inorganic compounds, aromatic compounds, PAH, chlorinated hydrocarbons, pesticides and other contaminants.**

|   | Earth/sediment<br>(mg/kg dry matter)  |                    | Groundwater<br>(ug/l in solution) |                    |
|---|---------------------------------------|--------------------|-----------------------------------|--------------------|
| Compound  | Target Value                          | Intervention Value | Target Value<br>(shallow/deep)    | Intervention Value |
| <b>I Metals</b><br><b>(* note soil type correction formula)</b> |                                       |                    |                                   |                    |
| antimony  | 3                                     | 15                 | -/0.15                            | 0.09               |
| arsenic   | 29                                    | 55                 | 10/7.2                            | 60                 |
| barium  | 160                                   | 625                | 50/200                            | 625                |
| cadmium   | 0.8                                   | 12                 | 0.4/0.06                          | 6                  |
| chromium  | 100                                   | 380                | 1/2.5                             | 30                 |
| cobalt  | 9                                     | 240                | 20/0.7                            | 100                |
| copper  | 36                                    | 190                | 15/1.3                            | 75                 |
| mercury   | 0.3                                   | 10                 | 0.05/0.01                         | 0.3                |
| lead  | 85                                    | 530                | 15/1.7                            | 75                 |
| molybdenum  | 3                                     | 200                | 5/3.6                             | 300                |
| nickel  | 35                                    | 210                | 15/2.1                            | 75                 |
| zinc  | 140                                   | 720                | 65/24                             | 800                |
|   | Earth/sediment<br>( mg/kg dry matter) |                    | Groundwater<br>(ug/l in solution) |                    |
| Compound  | Target Value                          | Intervention Value | Target Value                      | Intervention Value |

|  |   |                           |   |                           |
|--|---|---------------------------|---|---------------------------|
| <b>II Inorganic Compounds</b>  |   |                           |   |                           |
| cyanides - free  | 1   | 20                        | 5   | 1500                      |
| cyanides - complex (pH<5) (1)  | 5   | 650                       | 10  | 1500                      |
| cyanides - complex (pH>=5)   | 5   | 50                        | 10  | 1500                      |
| thiocyanates (sum)   | 1   | 20                        | -   | 1500                      |
| bromide (mg Br/l)  | 20  | -                         | 0.3 mg/l (2)                              | -                         |
| chloride (mg Cl/l)   | -   | -                         | 100 mg/l (2)                              | -                         |
| fluoride (mg F/l)  | 500 (3)                                       | -                         | 0.5 mg/l (2)                              | -                         |
|  | <b>Earth/sediment<br/>( mg/kg dry matter)</b> |                           | <b>Groundwater<br/>(ug/l in solution)</b> |                           |
| <b>Compound</b>  | <b>Target Value</b>                           | <b>Intervention Value</b> | <b>Target Value</b>                       | <b>Intervention Value</b> |
| <b>III Aromatic Compounds</b><br><b>(** note soil type correction formula)</b> |   |                           |   |                           |
| benzene  | 0.01  | 1                         | 0.2                                       | 30                        |
| catechol (o-dihydroxybenzene)  | 0.05  | 20                        | 0.2                                       | 1250                      |
| cresols (sum)  | 0.05  | 5                         | 0.2                                       | 200                       |
| ethylbenzene   | 0.03  | 50                        | 4   | 150                       |
| hydroquinone (p-dihydroxybenzene)  | 0.05  | 10                        | 0.2                                       | 800                       |
| phenol   | 0.05  | 40                        | 0.2                                       | 2000                      |
| resorcinol (m-dihydroxybenzene)  | 0.05  | 10                        | 0.2                                       | 600                       |
| toluene  | 0.01  | 130                       | 7   | 1000                      |
| xylenes  | 0.1   | 25                        | 0.2                                       | 70                        |
| styrene (vinyl benzene)  | 0.3   | 100                       | 6   | 300                       |
|  | <b>Earth/sediment<br/>( mg/kg dry matter)</b> |                           | <b>Groundwater<br/>(ug/l in solution)</b> |                           |
| <b>Compound</b>  | <b>Target Value</b>                           | <b>Intervention Value</b> | <b>Target Value</b>                       | <b>Intervention Value</b> |

|  |   |                           |   |                           |
|--|---|---------------------------|---|---------------------------|
| <b>IV Polycyclic Aromatic Hydrocarbons</b><br><u>(*** note soil type correction formula)</u> |   |                           |   |                           |
| PAH (sum of 10) ( <a href="#">4</a> , <a href="#">14</a> )                                   | 1   | 40                        | -   | -                         |
| anthracene   |   |                           | 0.0007                                    | 5                         |
| benzo(a)anthracene   |   |                           | 0.0001                                    | 0.5                       |
| benzo(a)pyrene   |   |                           | 0.0005                                    | 0.05                      |
| benzo(ghi)perylene   |   |                           | 0.0003                                    | 0.05                      |
| benzo(k)fluoranthene   |   |                           | 0.0004                                    | 0.05                      |
| chrysene   |   |                           | 0.003                                     | 0.2                       |
| fluoranthene   |   |                           | 0.003                                     | 1                         |
| indeno(1,2,3 -cd)pyrene  |   |                           | 0.0004                                    | 0.05                      |
| naphthalene  |   |                           | 0.01                                      | 70                        |
| phenanthrene   |   |                           | 0.003                                     | 5                         |
|  | <b>Earth/sediment<br/>( mg/kg dry matter)</b> |                           | <b>Groundwater<br/>(ug/l in solution)</b> |                           |
| <b>Compound</b>  | <b>Target Value</b>                           | <b>Intervention Value</b> | <b>Target Value</b>                       | <b>Intervention Value</b> |

| V Chlorinated Hydrocarbons<br><u>(** note soil type correction formula)</u> |       |     |         |      |
|---|-------|-----|---------|------|
| chlorobenzenes (sum) ( <a href="#">5</a> , <a href="#">14</a> )             | 0.03  | 30  | -       | -    |
| monochlorobenzene   |       |     | 7       | 180  |
| dichlorobenzene   |       |     | 3       | 50   |
| trichlorobenzene  |       |     | 0.01    | 10   |
| tetrachlorobenzene  |       |     | 0.01    | 2.5  |
| pentachlorobenzene  |       |     | 0.003   | 1    |
| hexachlorobenzene   |       |     | 0.00009 | 0.5  |
| chloronapthalene  | -     | 10  | -       | 6    |
| monochloroaniline   | 0.005 | 50  | -       | 30   |
| EOX   | 0.3   |     | -       |      |
| chlorophenols (sum) ( <a href="#">6</a> , <a href="#">14</a> )              | 0.01  | 10  | -       | -    |
| monochlorophenols (sum)   |       |     | 0.3     | 100  |
| dichlorophenols (sum)   |       |     | 0.2     | 30   |
| trichlorophenols (sum)  |       |     | 0.03    | 10   |
| tetrachlorophenols (sum)  |       |     | 0.01    | 10   |
| pentachlorophenols (sum)  |       |     | 0.04    | 3    |
| 1,1-dichloroethane  | 0.02  | 15  | 7       | 900  |
| 1,2-dichloroethane  | 0.02  | 4   | 7       | 400  |
| 1,1-dichloroethene  | 0.1   | 0.3 | 0.01    | 10   |
| 1,2-dichloroethene (cis and trans)??  | 0.2   | 1   | 0.01    | 20   |
| dichloropropane   | 0.002 | 2   | 0.8     | 80   |
| dichloromethane   | 0.4   | 10  | 0.01    | 1000 |
| trichloromethane (chloroform)   | 0.02  | 10  | 6       | 400  |
| 1,1,1-trichloroethane   | 0.07  | 15  | 0.01    | 300  |
| 1,1,2-trichloroethane   | 0.4   | 10  | 0.01    | 130  |
| trichloroethene (Tri)   | 0.1   | 60  | 24      | 500  |
| tetrachloromethane (Tetra)  | 0.4   | 1   | 0.01    | 10   |
| tetrachloroethene (Per)   | 0.002 | 4   | 0.01    | 40   |
| polychlorinated biphenyls (sum) ( <a href="#">7</a> )                       | 0.02  | 1   | 0.01    | 0.01 |
| tetrachloroethene   | 0.01  | 4   | 0.01    | 40   |
| tetrachloromethane  | 0.001 | 1   | 0.01    | 10   |
| trichloroethene   | 0.001 | 60  | 0.01    | 500  |
| trichloromethane  | 0.001 | 10  | 0.01    | 400  |
| vinyl chloride  | 0.01  | 0.1 | 0.01    | 5    |

| Compound   | Earth/sediment<br>( mg/kg dry matter) |                    | Groundwater<br>(ug/l in solution) |                    |
|--|---------------------------------------|--------------------|-----------------------------------|--------------------|
|  | Target Value                          | Intervention Value | Target Value                      | Intervention Value |
| <b>VI Pesticides</b><br><b>(** note soil type correction formula)</b>          |                                       |                    |                                   |                    |
| DDT/DDE/DDD (8)  | 0.01                                  | 4                  | 0.004 ng/l                        | 0.01               |
| drins (9)  | 0.005                                 | 4                  | -                                 | 0.1                |
| aldrin   | 0.00006                               |                    | 0.009 ng/l                        |                    |
| dieldrin   | 0.0005                                |                    | 0.1 ng/l                          |                    |
| endrin   | 0.00004                               |                    | 0.04 ng/l                         |                    |
| HCH-compounds (10)   | 0.01                                  | 2                  | 0.05                              | 1                  |
| - alpha  | 0.003                                 |                    | 33 ng/l                           |                    |
| - beta   | 0.009                                 |                    | 8 ng/l                            |                    |
| - gamma (lindane)  | 0.00005                               |                    | 9 ng/l                            |                    |
| atrazine   | 0.0002                                | 6                  | 29 ng/l                           | 150                |
| carbaryl   | 0.00003                               | 5                  | 2 ng/l                            | 50                 |
| carbofuran   | 0.00003                               | 2                  | 9 ng/l                            | 100                |
| chlorodane   | 0.00002                               | 4                  | 0.02 ng/l                         | 0.2                |
| endosulfan   | 0.00001                               | 4                  | 0.2 ng/l                          | 5                  |
| heptachloro  | 0.0007                                | 4                  | 0.005 ng/l                        | 0.3                |
| heptachloro-epoxide  | 0.0000002                             | 4                  | 0.005 ng/l                        | 3                  |
| maneb  | 0.002                                 | 35                 | 0.05 ng/l                         | 0.1                |
| MCPA   | 0.00005                               | 4                  | 0.02                              | 50                 |
| organotin compounds (11)   | 0.001                                 | 2.5                | 0.05-16 ng/l                      | 0.7                |
| <b>Earth/sediment<br/>( mg/kg dry matter)</b>                                  |                                       |                    |                                   |                    |
| <b>Groundwater<br/>(ug/l in solution)</b>                                      |                                       |                    |                                   |                    |
| Compound   | Target Value                          | Intervention Value | Target Value                      | Intervention Value |
| <b>VII Other contaminants</b><br><b>(** note soil type correction formula)</b> |                                       |                    |                                   |                    |
| cyclohexanone  | 0.1                                   | 45                 | 0.5                               | 15000              |
| phthalates (sum) (12)  | 0.1                                   | 60                 | 0.5                               | 5                  |
| mineral oil (13)   | 50                                    | 5000               | 50                                | 600                |
| pyridine   | 0.1                                   | 0.5                | 0.5                               | 30                 |
| tetrahydrofuran  | 0.1                                   | 2                  | 0.5                               | 300                |
| tetrahydrothiophene  | 0.1                                   | 90                 | 0.5                               | 5000               |
| tribromomethane  | -                                     | 75                 | -                                 | 630                |

Notes for Table 1:

1. Acidity: pH (0.01 M CaCl<sub>2</sub>). In order to determine whether pH is greater than or equal to 5, or less than 5, the 90 percentile of the measured values is taken.
2. In areas subject to marine influence higher values occur naturally (salt and brackish water).
3. Differentiation by clay content: (F) = 175 = 13L (L = % clay).
4. PAH (sum of 10) here means the total of anthracene, benzo(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, phenanthrene, fluoroanthene, indeno(1,2,3-cd)pyrene, naphthalene and benzo(ghi)perylene.
5. 'Chlorobenzenes (sum)' here means the total of all chlorobenzenes (mono-, di-, tri-, tetra-, penta- and hexachlorobenzene).
6. 'Chlorophenols (sum)' here means the total of all chlorophenols (mono-, di-, tri-, tetra- and pentachlorophenol).
7. In the case of the intervention value, 'polychlorobiphenyls (sum)' means the total of PCB 28, 52, 101, 118, 138, 153 and 180. For the target value it refers to the total excluding PCB 118.
8. 'DDT/DDD/DDE' above means the sum of DDT, DDD and DDE.
9. 'Drins' above means the sum of aldrin, dieldrin and endrin.
10. 'HCH compounds' above means the sum of alpha-HCH, beta-HCH, gamma-HCH and delta-HCH.
11. The intervention value applies to the sum of the concentrations of organotin compounds encountered.
12. 'Phthalates (sum)' above means the total of all phthalates.
13. 'Mineral oil' is defined in the analysis standard. Where the contamination is due to mixtures (e.g. gasoline or domestic heating oil), then not only the alkane content but also the content of aromatic and/or polycyclic aromatic hydrocarbons must be determined. This aggregate parameter has been adopted for practical reasons. Further toxicological and chemical disaggregation is under study.
14. The values for the sum of polycyclic aromatic hydrocarbons, the sum of chlorophenols and the sum of chlorobenzenes in earth/sediment apply to the total concentration of the compounds belonging to the relevant category. If the contamination is due to only one compound of a category, the value used is the value for that compound. Where there are two or more compounds the value for the total of these compounds applies, etc. For earth/sediment, effects are directly additive (i.e. 1 mg of substance A has the same effect as 1 mg of substance B) and can be tested against an aggregate standard by summing the concentrations of the substances involved. In the case of groundwater, effects are indirectly additive and are expressed as a fraction of the individual intervention values (i.e. 0.5 of the intervention value of substance A has the same effect as 0.5 of the intervention value of substance B). This means that an addition formula must be used to determine whether an intervention value is exceeded. The intervention value for the sum of a group of substances is exceeded if:

$$\sum \frac{\text{conc}}{I_i} \geq 1$$

Where:

conc = measured concentration of compound from the relevant group

I<sub>i</sub> = intervention value of the compound concerned

**Table 2. Target values and indicative levels for serious contamination for soil/sediment and groundwater for metals, inorganic compounds, aromatic compounds, PAH, chlorinated hydrocarbons, pesticides and other contaminants.**

|   | Earth/sediment<br>( mg/kg dry matter) |  | Groundwater<br>(ug/l in solution) |  |
|---|---------------------------------------|--|-----------------------------------|--|
| Compound  | Target Value                          | Indicative level - serious contamination | Target Value (shallow/deep)       | Indicative level - serious contamination |
| <b>I Metals</b><br><u>(* note soil type correction formula)</u>               |                                       |  |                                   |  |
| beryllium   | 1.1                                   | 30                                       | -/0.05                            | 15                                       |
| selenium  | 0.7                                   | 100                                      | -/0.07                            | 160                                      |
| tellurium   | -                                     | 600                                      | -/-                               | 70                                       |
| thallium  | 1                                     | 15                                       | -/2                               | 7  |
| tin   | 19                                    | 900                                      | -/2.2                             | 50                                       |
| vanadium  | 42                                    | 250                                      | -/1.2                             | 70                                       |
| silver  | -                                     | 15                                       | -/-                               | 40                                       |
|   | Earth/sediment<br>( mg/kg dry matter) |  | Groundwater<br>(ug/l in solution) |  |
| Compound  | Target Value                          | Indicative level - serious contamination | Target Value                      | Indicative level - serious contamination |
| <b>III Aromatic Compounds</b><br><u>** note soil type correction formula)</u> |                                       |  |                                   |  |
| dodecylbenzene  | -                                     | 1000                                     | -                                 | 0.02                                     |
| aromatic solvents (1)   | -                                     | 200                                      | -                                 | 150                                      |
|   | Earth/sediment<br>( mg/kg dry matter) |  | Groundwater<br>(ug/l in solution) |  |

| Compound   | Target Value                                  | Indicative level - serious contamination | Target Value                              | Indicative level - serious contamination |
|--|---|--|---|--|
| <b>V Chlorinated Hydrocarbons</b><br><u>(** note soil type correction formula)</u> |   |  |   |  |
| dichloroaniline  | 0.005   | 50                                       | -   | 100                                      |
| trichloroaniline   | -   | 10                                       | -   | 10                                       |
| tetrachloroaniline   | -   | 30                                       | -   | 10                                       |
| pentachloroaniline   | -   | 10                                       | -   | 1  |
| 4-chloromethylphenols  | -   | 15                                       | -   | 350                                      |
| dioxin (2)   | -   | 0.001                                    | -   | 0.001 ng/l                               |
|  | <b>Earth/sediment<br/>( mg/kg dry matter)</b> |  | <b>Groundwater<br/>(ug/l in solution)</b> |  |
| Compound   | Target Value                                  | Indicative level - serious contamination | Target Value                              | Indicative level - serious contamination |
| <b>VI Pesticides</b><br><u>(** note soil type correction formula)</u>              |   |  |   |  |
| azinphos-methyl  | 0.000005                                      | 2  | 0.1 ng/l                                  | 2  |
|  | <b>Earth/sediment<br/>( mg/kg dry matter)</b> |  | <b>Groundwater<br/>(ug/l in solution)</b> |  |
| Compound   | Target Value                                  | Indicative level - serious contamination | Target Value                              | Indicative level - serious contamination |
| <b>VII Other contaminants</b><br><u>(** note soil type correction formula)</u>     |   |  |   |  |
| acrylonitrile  | 0.000007                                      | 0.1                                      | 0.08                                      | 5  |
| butanol  | -   | 30                                       | -   | 5600                                     |
| 1,2-butylacetate   | -   | 200                                      | -   | 6300                                     |
| ethylacetate   | -   | 75                                       | -   | 15000                                    |
| diethylene glycol  | -   | 270                                      | -   | 13000                                    |
| ethylene glycol  | -   | 100                                      | -   | 5500                                     |
| formaldehyde   | -   | 0.1                                      | -   | 50                                       |
| isopropanol  | -   | 220                                      | -   | 31000                                    |
| methanol   | -   | 30                                       | -   | 24000                                    |
| methyl-tert-butyl ether (MTBE)   | -   | 100                                      | -   | 9200                                     |
| methylethylketone  | -   | 35                                       | -   | 6000                                     |

Notes for Table 2.

1. Aromatic solvents are defined as a standard mixture of substances referred to as "C9-aromatic naphtha" as defined by the International Research and Development Corporation: o-xylene 3.2%, i-isopropylbenzene 2,74%, n-propylbenzene 3.97%, 1-methyl-4 ethyl benzene 7,05%, 1-methyl-3-ethyl benzene 15.1%, 1-methyl-2-ethylbenzene 5,44%, 1,3,5-trimethylbenzene 8,37%, 1,2,4-trimethylbenzene 40,5%, 1,2,3-trimethylbenzene 6,18% and > ?? alkylbenzenes 6,19%.

2. The indicative level is expressed on the basis of toxicity equivalents based on the most toxic compound.

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## *Supplementary remarks on tables 1 and 2*

### \* **Metals:**

The target values, intervention values and indicative levels for metals and arsenic, with the exception of antimony, molybdenum, selenium, tellurium, thallium and silver depend on the clay content and/or the organic matter content. In assessing the quality of the soil the values for a standard soil are converted to values applying to the actual soil concerned on the basis of the measured organic material (measured by percentage weight lost by volatilization, on the total dry weight of the soil) and clay content (the percentage by weight of the total dry material comprising mineral particle matter with a diameter of less than 2 um). The converted values can then be compared with the measured concentrations in the soil.

The following soil type correction formula can be used for the conversion for metals:

$$(SW,IW)_b = (SW,IW)_{sb} \times \left[ \frac{A + (B \times \% \text{ clay}) + (C \times \% \text{ organic matter})}{\{A + (B \times 25) + (C \times 10)\}} \right]$$

in which:

**(SW,IW)<sub>b</sub>** = target value or intervention value for the soil to be assessed

**(SW,IW)<sub>sb</sub>** = target value or intervention value for standard soil

**% clay** = measured percentage clay (grain size < 2 um ) in the soil to be assessed

**% organic matter** = measured percentage organic matter in the soil to be assessed.

**A, B, C** = substance dependent constants for metals (see table):

## **Table of compound dependent constants**

|                  | <b>A</b> | <b>B</b> | <b>C</b> |
|------------------|----------|----------|----------|
| <b>Arsenic</b>   | 15       | 0.4      | 0.4      |
| <b>Barium</b>    | 30       | 5        | 0        |
| <b>Beryllium</b> | 8        | 0.9      | 0        |
| <b>Cadmium</b>   | 0.4      | 0.007    | 0.021    |
| <b>Chromium</b>  | 50       | 2        | 0        |
| <b>Cobalt</b>    | 2        | 0.28     | 0        |
| <b>Copper</b>    | 15       | 0.6      | 0.6      |
| <b>Mercury</b>   | 0.2      | 0.0034   | 0.0017   |
| <b>Lead</b>      | 50       | 1        | 1        |
| <b>Nickel</b>    | 10       | 1        | 0        |
| <b>Tin</b>       | 4        | 0.6      | 0        |
| <b>Vanadium</b>  | 12       | 1.2      | 0        |
| <b>Zinc</b>      | 50       | 3        | 1.5      |

**\*\* Organic compounds:**

The target values, intervention values and indicative levels for serious contamination for organic compounds, depend on the organic matter content.

For the conversion for organic compounds, with the exception of PAH, the following soil type correction formula can be used:

$$(SW,IW)_b = (SW,IW)_{sb} \times (\% \text{ organic matter}/10)$$

in which:

**(SW,IW)<sub>b</sub>** = target value or intervention value for the soil to be assessed

**(SW,IW)<sub>sb</sub>** = target value or intervention value for standard soil

**% organic matter** = measured percentage organic matter in the soil to be assessed. For soils with measured organic matter content of more than 30% or less than 2% contents of 30% and 2% are adhered to respectively.

**\*\*\* PAHs:**

For the target value and intervention value PAH no soil type correction is used for soils with an organic matter content up to 10% and soils with an organic matter content above 30%. For soils with an organic matter content up to 10% a value is used of 1 respectively 40 mg/kg and for soils with an organic matter content from 30% upwards a value is used of 3 respectively 120 mg/kg. For an organic matter content between 10% and 30% the following soil type correction formula can be used:

$$(SW)_b = 1 \times (\% \text{ organic matter}/10) \quad (IW)_b = 40 \times (\% \text{ organic matter}/10)$$

in which:

**(SW,IW)<sub>b</sub>** = target value, intervention value for the soil to be assessed

**% organic matter** = measured percentage organic matter in the soil to be assessed.

***Note from Webmaster: The above is taken directly from the English translation of the circular and does not appear to make much sense. I will amend it if someone can supply me with a more meaningful translation.***

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§ Source: *Circular on target values and intervention values for soil remediation: DBO/1999226863*, Ministry of Housing, Spatial Planning and Environment Directorate-General For Environmental Protection, Department of Soil Protection (IPC 625), PO Box 30945, 2500 GX The Hague. 9 February 2000. Published in the Netherlands Government Gazette No. 39 on 4 February 2000 and available as [PDF files](#).



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