CVP/SRAG Meeting

IRIS Updates Soil Remediation Standards

September 13, 2017





Regulatory Basis

- Remediation Standards N.J.A.C. 7:26D-6
 - Department may update soil remediation standards contained in the rule if USEPA revises toxicity information in the Integrated Risk Information System (IRIS)



Regulatory Basis

- Remediation Standards N.J.A.C. 7:26D-6
 - Accomplished through a Notice of Administrative
 Change published in the New Jersey Register
 - Notice of Administrative Change shall:
 - Identify the contaminant
 - List the revised soil remediation standard
 - Describe the basis for the change of the soil remediation standard



Notice of Administrative Change

Will be published in the September 18,
 2017 edition of the New Jersey Register





Additional information (available September 18, 2017)

- Listserv announcement
- Courtesy copy of the Notice of Administrative Change available on the SRWMP website
- Updated copy of the Remediation Standards available on the SRWMP website
- Phase in guidance on the use/application of the updated soil remediation standards available on the SRWMP website

Affected Contaminants

- The soil remediation standards for 11 contaminants are increasing (becoming less stringent)
- The soil remediation standards for 6 contaminants are decreasing (becoming more stringent)
- The soil remediation standards for 1 contaminant are unchanged
- One contaminant will no longer be regulated



Contaminant

Previous
Residential Direct
Contact Soil
Remediation
Standard (mg/kg)

Updated
Residential Direct
Contact Soil
Remediation
Standard (mg/kg)

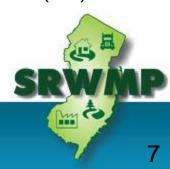
Previous Non-Residential Direct Contact Soil Remediation Standard (mg/kg)

Updated Non-Residential Direct Contact Soil Remediation Standard (mg/kg)

Direct Contact Soil Remediation Standards Increasing

Benzo(a)Anthracene	0.6	5	2	17
Benzo(a) Pyrene	0.2 (PQL)	0.5	0.2	2
Benzo(b)Fluoranthene	0.6	5	2	17
Benzo(k)Fluoranthene	6	45	23	170
Chrysene	62	450	230	1,700
Dibenz(ah)Anthracene	0.2 (PQL)	0.5	0.2	2
Indeno(123-cd)Pyrene	0.6	5	2	17
Carbon Tetrachloride	0.6	2	2	4
Methylene Chloride	34	46	97	230
Tetrachloroethene	2	43	5	1,500
1,1,1-Trichloroethane	290	160,000	NS (Csat)	NS (Csat)





Contaminant

Previous
Residential Direct
Contact Soil
Remediation
Standard (mg/kg)

Updated
Residential Direct
Contact Soil
Remediation
Standard (mg/kg)

Previous Non-Residential Direct Contact Soil Remediation Standard (mg/kg) Updated Non-Residential Direct Contact Soil Remediation Standard (mg/kg)

<u>Direct Contact Soil Remediation Standards Decreasing - No Order of Magnitude Change</u>

Hexachloroethane	35	12	140	48
Nitrobenzene	31	5	***	****
Pentachlorophenol	3	0.9	10	3
Trichloroethene	7	3	20	10

Direct Contact Soil Remediation Standards Decreasing - Order of Magnitude Change

1,1-Biphenyl	3,100	61	34,000	240
Cyanide	1,600	47	23,000	680
Nitrobenzene	***	***	340	14





Contaminant

Previous
Residential Direct
Contact Soil
Remediation
Standard (mg/kg)

Updated
Residential Direct
Contact Soil
Remediation
Standard (mg/kg)

Previous Non-Residential Direct Contact Soil Remediation Standard (mg/kg) Updated Non-Residential Direct Contact Soil Remediation Standard (mg/kg)

Direct Contact Soil Remediation Standard Not Changing

1,1,2,2-

Tetrachloroethane 1 1 3 3

Contaminant No Longer Regulated

Thallium5Not Regulated79Not Regulated1,1,1-Trichloroethane****4,200Not Regulated





Standards Decreasing — Less than an Order of Magnitude

Contaminant	Number Existing Active Cases	Number of Additional Active Cases	Number of Closed Cases with Deed Notices	Number of Additional Closed Cases with Deed Notices
Hexachloroethane	59	3	N/A	N/A
Pentachlorophenol	7	9	N/A	N/A
Trichloroethene	203	54	N/A	N/A
Nitrobenzene	24	8	N/A	N/A





Standards Decreasing — Order of Magnitude or More

Contaminant	Number Existing Active Cases	Number of Additional Active Cases	Number of Closed Cases with Deed Notices	Number of Additional Closed Cases with Deed Notices
1,1-Biphenyl	1	14	0	5
Cvanide	3	20	0	6





Standards Increasing

Contaminant	Number Existing Active Cases	Number of Fewer Active Cases	Number of Closed Cases with Deed Notices	Number of Fewer Closed Cases with Deed Notices
Benzo(a)Pyrene	1325	212	1173	286
Benzo(b)Fluoranthene	1163	593	880	546





Operative Date of Update Changes

 Publication of the Notice of Administrative Change (September 18, 2017)





Phase in of Updated Soil Remediation Standards

 The person responsible for conducting the remediation may continue to remediate a site using soil remediation standards in effect prior to September 18, 2017, provided the updated remediation standard is not an order of magnitude or more lower than the pre-September 18, 2017 remediation standard, and if the following conditions exist:

Phase in of Updated Soil Remediation Standards

- 1. The site being remediated has either:
- a. an existing Remedial Action Workplan or Remedial Action Report approved by the Department, **or**
- b. an existing Remedial Action Workplan or Remedial Action Report certified by a licensed site remediation professional (LSRP) and that has been submitted to the Department.

OR





Phase in of Updated Soil Remediation Standards

- 2. The site being remediated will have by March 18, 2018 either:
- a Remedial Action Workplan or Remedial Action Report approved by the Department, or
- b. a Remedial Action Workplan or Remedial Action Report certified by an LSRP and submitted to the Department.





Phase in of Updated Soil Remediation Standards

 Additionally, the remedial action must be conducted within the applicable regulatory timeframe as specified in the Technical Requirements for Site Remediation at N.J.A.C. 7:26E-5.8.



