

## NJDEP May 17, 2021 Amendments to the Soil Remediation Standards and #2 Heating Oil & Diesel

Updated: July 27, 2021

On May 17, 2021, NJDEP adopted and published amendments to the Soil Remediation Standards (SRS) N.J.A.C. 7:26D. The previous Direct Soil Contact limits were replaced with new categories. There are now individual Residential and Non-Residential SRS for the Ingestion-Dermal and Inhalation pathways. The previous Impact to Groundwater criteria have been replaced with Migration to Groundwater standards. For #2 Heating Oil and Diesel, Table 2-1 of the Technical Rules for Site Remediation requires the analysis of soil samples for EPH Category 1 for all soils and 2-Methylnaphthalene and Naphthalene on 25% of the soils where EPH is detected over 1000 mg/kg.<sup>1</sup>

The May 17<sup>th</sup> changes to the Soil Remediation Standards included the establishment of Residential and Nonresidential standards for EPH and changes to the remediation standards for 2-Methylnaphthalene and Naphthalene. The changes are as follows:

Contaminant	Residential				Nonresidential					
	2017 Direct Contact	Table 1 Ingestion-Dermal (mg/Kg)	Table 3 Inhalation	Table 3 Inhalation	2017 Direct Contact	Table 2 Ingestion-Dermal (mg/Kg)	Table 4 Inhalation	Table 4 Inhalation	2017 Impact to Ground Water	Table 5 Migration to Ground Water (mg/Kg)
Extractable Petroleum Hydrocarbons (Category 1)	NS	5300	<sup>3</sup>	NA <sup>1</sup>	NS	75000	<sup>3</sup>	NA <sup>1</sup>	NS	NA <sup>6</sup> (RL=80)
Methylnaphthalene, 2-	230	240		NA <sup>1</sup>	2400	3300		NA <sup>1</sup>	8	3.1
Naphthalene	6	2500		5.7	17	34000		27	25	19

	Standard is Lower
	Standard is Higher
	New Contaminant Standard

### \*Footnotes

#### Tables 1 & 2:

3 – Special calculation for EPH – see at N.J.A.C. 7:26D Appendix 2

NA<sup>1</sup> – Standard not applicable because calculated health-based criterion exceeds one million

#### Table 3 & 4:

NA<sup>1</sup> – Not applicable because appropriate toxicological information is not available

#### Table 5:

NA – Not Applicable

6 – Standard not applicable because a ground water remediation standard does not exist



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IAL understands that the NJDEP will require consultants to compare soil sample data to all categories of the new 2021 standards. IAL recommends requesting the lab provide the Regulatory Comparison Spreadsheet comparing soil data to the new 2021 SRS. If your specific project is still being remediated under the 2017 SRS, IAL can provide the comparison to the 2017 limits. **IAL's Chain-of-Custody (COC) now includes options to choose the comparison of sample data to the 2021 standards. If a COC does not reference the specific SRS, IAL will default to the 2021 standards.**

**On the chain of custody, the soil tests should be requested as follows:**

### **NJ-EPH (DRO) Cat 1 Naphthalene & 2-Methylnaphthalene**

Samples that are to be staged for subsequent SPLP Naphthalene and/or 2-Methylnaphthalene, pending the direct soil analyses for these compounds, would have to be leached using Method 1312 upon receipt and extracted within 7 days to meet the holding times for Method 1312 leachate. IAL will hold these samples for instruction from the consultant regarding whether analysis of the extract for Naphthalene and/or 2-Methylnaphthalene is required. To facilitate the leaching and extraction, **the following should be written on the sample COC for the test:**

### **SPLP BN Leach, Extract & Hold**

For analysis upon sample login, write: **SPLP Naphthalene/2-Methylnaphthalene.**

Information regarding the Amendments can be found on the NJDEP Remediation Standards page at: <https://www.nj.gov/dep/srp/guidance/rs/>. Found at this link are guidance documents addressing the following:

- Remediation Standards
- Phase-In and Order of Magnitude Guidance
- Basis and Background Documents
- Guidance Documents for Alternative Remediation Standards for the Ingestion-Dermal, Inhalation, Migration to Groundwater and Vapor Intrusion pathways
- Calculators for developing Alternative Remediation Standards for the various pathways
- Extractable Petroleum Hydrocarbon guidance
- Alternative or Interim Remediation Standards and or Screening Level Application Forms

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IAL is a NELAP New Jersey Accredited Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), and Pennsylvania (68-00773).



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-Attainment and compliance documents which pertain specifically to the migration to ground water exposure pathway may be accessed at [www.nj.gov/dep/srp/guidance/](http://www.nj.gov/dep/srp/guidance/)

We at IAL hope you find this information useful. Should you have any questions for the lab regarding these changes, please contact your Project Manager at 973-361-4252.

Thank you!

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