

# Errata for

## Risk assessment of contaminants in sewage sludge applied on Norwegian soils, 2009

- I In “Summary”, under the heading “Conclusions” and in the Norwegian “Sammendrag”, under “Konklusjoner”:

**In “Conclusions” page 9, the following sentence (line 6 to 8) should be reworded:**

“There is also limited information available on the effects of these compounds in soil, and the PNEC values for octylphenols and nonylphenols were derived from available aquatic PNEC and ~~large safety factors~~ commonly used safety factors were used in the assessment.”

*Reason:* The word “large” is somewhat misleading because an assessment factor of 10 is **commonly** used when PNEC-values are derived from chronic tests on species representing three trophic levels.

**Under “Konklusjoner” side 14, bør ordlyden i følgende setning (linje 6-7) være:**

”For oktyl- og nonylfenol er PNEC-verdiene utledet fra akvatiske PNEC-verdier og ~~store sikkerhetsfaktorer~~ vanlig brukte sikkerhetsfaktorer er benyttet.”

*Begrunnelse:* Ordlyden ”store sikkerhetsmarginer” er noe misvisende fordi en sikkerhetsfaktor på 10 er **vanlig** brukt når PNEC-verdier er utledet fra kroniske tester på arter som representerer tre ulike trofiske nivåer.

**II** In **Appendix A1**, under the heading “**Concentrations of organic contaminants in sewage sludge**”, on page VIII for the following subtitles:

- **DEHP, DPB, octylphenol, octylphenol ethoxylates, nonylphenol, nonylphenol ethoxylates and LAS**

**In table A19 the following changes have been made:**

- The headings “mean” and “median” had unfortunately been switched in the original report.
- The number of samples (N) for octylphenol, nonylphenol, and nonylphenol ethoxylates is 12 (**not 52**). Furthermore, the references behind the listed values have been included.
- The spelling of the listed substances has been corrected.

*The following table replaces table A19 in the original report:*

**Table A19.** Concentrations of DEHP, DPB, octylphenol, octylphenol ethoxylates, nonylphenol, nonylphenol ethoxylates and LAS in sewage sludge (mg/kg DM).

	<b>DEHP</b>	<b>DPB</b>	<b>Octyl-phenol</b>	<b>Octylphenol ethoxylates</b>	<b>Nonyl-phenol</b>	<b>Nonylphenol ethoxylates</b>	<b>LAS</b>
Minimum	13	0.12	0.26	0.16	12.3	5.7	570
Maximum	178	2.8	32.5	0.93	44	39	3200
Median	49	0.34	0.47	0.57	32	28	1400
<b>Mean</b>	<b>53</b>	<b>0.64</b>	<b>5.9</b>	<b>0.53</b>	<b>30</b>	<b>24</b>	<b>1441</b>
N	52	41	12	12	12	12	40
<i>References</i>	<i>Nedland 2001-02, Nedland and Paulsrud 2006</i>		<i>Nedland and Paulsrud 2006</i>				<i>Nedland 2001-02</i>

N – number of samples; N for the different contaminants varies because the reported values which were less than the limit of quantification or the limit of detection, have been excluded from the statistical analyses.

- PAH (Poly aromatic hydrocarbon)

**In table A20 the following changes have been made:**

- The headings “mean” and “median” was switched in the original report. The values which followed “mean” were median values and vice versa.
- The spelling of the listed substances has been corrected.

*The following table replaces table 20 in the original report:*

**Table A20.** Concentrations of PAHs in sewage sludge (mg/kg DM).

	Naphthalene	Acenaphthylene	Acenaphthene	Phenanthrene	Anthracene	Fluorene
Minimum	0.053	0.01	0.015	0.18	0.014	0.062
Maximum	1.4	0.041	0.26	1.1	0.13	0.71
Median	0.26	0.02	0.08	0.42	0.04	0.18
<b>Mean</b>	<b>0.33</b>	<b>0.02</b>	<b>0.10</b>	<b>0.48</b>	<b>0.05</b>	<b>0.21</b>
N	40	10	30	40	33	33
<i>References</i>	<i>Nedland 2001-02</i>					

	Fluor-anthene	Pyrene	Benz(a)-anthracene	Chrysene	Benzo(b,k)fluoranthene	Indeno(1,2,3-cd)pyrene
Minimum	0.076	0.086	0.029	0.04	0.021	0.017
Maximum	0.6	0.69	0.24	0.32	0.36	0.16
Median	0.21	0.25	0.05	0.10	0.09	0.05
<b>Mean</b>	<b>0.23</b>	<b>0.27</b>	<b>0.07</b>	<b>0.12</b>	<b>0.12</b>	<b>0.06</b>
N	40	40	40	40	40	34
<i>References</i>	<i>Nedland 2001-02</i>					

	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Sum PAH 16
Minimum	0.014	0.022	0.012	0.62
Maximum	0.029	0.19	0.14	4.3
Median	0.02	0.07	0.05	1.80
<b>Mean</b>	<b>0.02</b>	<b>0.09</b>	<b>0.06</b>	<b>2.1</b>
N	6	33	28	52
<i>References</i>	<i>Nedland 2001-02</i>			<i>Nedland 2001-02; Nedland and Paulsrud 2006</i>

N – number of samples; N for the different contaminants varies because the reported values which were less than the limit of quantification or the limit of detection, have been excluded from the statistical analyses.