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Supplement 1

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Oskarshamn site investigation

Total numbers and metabolic diversity of microorganisms in borehole KSH01A

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Description

This report is a supplement to the SKB report P-04-276 (Total numbers and metabolic diversity of microorganisms in borehole KSH01A).

The following changes has been made in the database SICADA (and therefore this supplement has been written);

1/ The borehole sections given in the SKB P-04-276 report has been somewhat modified. The former borehole sections were;

158.5–167 metres

245–261.6 metres

548–565 metres

The correct borehole sections are;

156.50–167.00 metres

245.00–261.58 metres

548.00–565.35 metres

2/ Some data in Chapter 6 (Results) has been changed. The changed data are given in italics in the tables below (the same tables as in the SKB P-04-276 report);

Table 6-1. Total number of cells in the analysed sections in KSH01A.

Borehole (section)	Cells ml ⁻¹		Number of observations
	Total number of cells	Standard deviation	
KSH01A (156.50–167.00)	1.4×10 ⁵	<i>0.60×10⁵</i>	8
KSH01A (245.00–261.58)	1.0×10 ⁵	<i>0.13×10⁵</i>	6
KSH01A (548.00–565.35)	7.2×10 ⁴	<i>0.092×10⁵</i>	6

Table 6-2. Most probable number (MPN) of metabolic groups of microorganisms in KSH01A, section 156.50–167.00 m.

Metabolic groups	Cells ml ⁻¹	
	MPN	Lower – upper 95% confidence limits
Iron reducing bacteria	2.1	0.9–5.5
Manganese reducing bacteria	< 0.2	–
Sulphate reducing bacteria	160	60–530
Autotrophic methanogens	n.a.*	–
Heterotrophic methanogens	n.a.	–
Autotrophic acetogens	n.a.	–
Heterotrophic acetogens	n.a.	–

*not analysed.

Table 6-3. Most probable number (MPN) of metabolic groups of microorganisms in KSH01A, section 245.00–261.58 m.

Metabolic groups	Cells ml ⁻¹	
	MPN	Lower – upper 95% confidence limits
Iron reducing bacteria	2.1	0.9–5.5
Manganese reducing bacteria	< 0.2	–
Sulphate reducing bacteria	22	10–58
Autotrophic methanogens	< 0.2	–
Heterotrophic methanogens	2.1	0.9–5.5
Autotrophic acetogens	n.a.*	n.a.
Heterotrophic acetogens	900	300–2900

*not analysed.

The changes made in the Tables 6-1, 6-2 and 6-3 may effect other parts (references to the above mentioned tables, figures etc) of the original report P-04-276. This has not been taken into account in this supplement.

