O ₂ level	Acceptor	Reaction	Process	Products
Oxic	O_2	$1380_2 + (CH_2O)_{106}(NH_3)_{16}(H_3PO_4)$	Aerobic respiration	CO ₂ , H ₂ O
		$\rightarrow 106\text{CO}_2 + 16\text{HNO}_3 + \text{H}_3\text{PO}_4 + 122\text{H}_2\text{O}$		
Нурохіс	NO ₃	$94.4 \text{HNO}_3 + (\text{CH}_2\text{O})_{106} (\text{NH}_3)_{16} (\text{H}_3\text{PO}_4)$	Denitrification	N_2
		$\rightarrow 106\text{CO}_2 + 55.2\text{N}_2 + \text{H}_3\text{PO}_4 + 177.2\text{H}_2\text{O}$		
Нурохіс	Mn (IV)	$236 \text{MnO}_2 + (\text{CH}_2\text{O})_{106} (\text{NH}_3)_{16} (\text{H}_3\text{PO}_4) + 472 \text{H}^+$	Mn reduction	Mn (II)
		$\rightarrow 106\text{CO}_2 + 8\text{N}_2 + 236\text{Mn}^{2+} + \text{H}_3\text{PO}_4 + 336\text{H}_2\text{O}$		
Нурохіс	Fe (III)	$212\text{Fe}_2\text{O}_3 + (\text{CH}_2\text{O})_{106}(\text{NH}_3)_{16}(\text{H}_3\text{PO}_4) + 848\text{H}^+$	Fe reduction	Fe (II)
		$\rightarrow 106\text{CO}_2 + 424\text{Fe}^{2+} + 16\text{NH}_3 + \text{H}_3\text{PO}_4 + 530\text{H}_2\text{O}$		
Anoxic	SO ₄ ²⁻	$53SO_4^{2-} + (CH_2O)_{106}(NH_3)_{16}(H_3PO_4)$	Sulfate reduction	H ₂ S
		$\rightarrow 106\text{CO}_2 + 53\text{S}^{2-} + 16\text{NH}_3 + \text{H}_3\text{PO}_4 + 106\text{H}_2\text{O}$		
Anoxic	-	$(CH_2O)_{106}(NH_3)_{16}(H_3PO_4)$	Methanogenesis	CH ₄
		\rightarrow 53CO ₂ + 53CH ₄ + 16NH ₃ + H ₃ PO ₄		