



Active MAGs in Each Redox Condition

Anoxic	244	26	72	20
Low Freq.	26	55	36	21
High Freq.	72	36	105	30
Oxic	20	21	30	52

Active MAGs Functional Potential

Full Electron Transport Chain (Complex I, II, III, IV, and V)	176	35	76	28
Mercury reduction	10	0	4	2
Arsenate reduction	59	13	14	16
Sulfur metabolism	59	8	15	7
Nitrogen metabolism	184	37	72	35
Butyrate utilization	41	10	20	10
Propionate utilization	21	4	4	7
Acetate utilization	187	34	79	32
Lactate utilization	84	16	34	13
Pyruvate => Acetyl CoA	225	48	93	41

Mean Gene Count / MAG

Iron acquisition (Siderophore)	13.898	13.291	12.933	10.212
Iron reduction	0.59	0.491	0.4	0.365
Iron oxidation	0.848	0.855	0.533	0.519