**Supplementary Materials**

***Arsenic release in arsenopyrite (FeAsS), relgar (As4S4) tailings and their mixtures with exogenous Slag Zero Valence Iron (SZVI) under biological oxidation environment: implications for in-situ remediation of arsenic in mine area***

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Fig. S1. Arsenic concentration of solid phases from each group and control experiment extracted by oxalate solution (pH = 2.0).

Fig. S2. The variation of solution Eh over time.

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Fig. S3. Variations in Fe2+ of solutions of each group for three stages.



Fig. S4. Variations in Fe3+ of solutions of each group for three stages.



Fig. S5. XRD pattern of various samples after biological dissolution after three stages.

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