

Supporting Information

Figure S1. Photograph of microcosm experiments with (a) ZVI (b) GR-CO₃ and (c) GR-Zn-CO₃, and COPR leachate at pH 12.2. The green colour produced by dissolved Cr(VI) is removed by the GR phases, but is unaffected by ZVI.

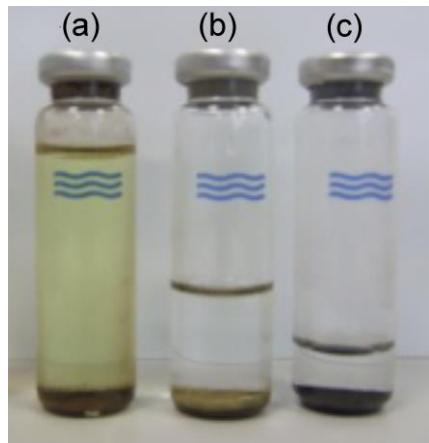


Table S1. Summary of experimental conditions.

| Material | pH | Chromate concentration ($\mu\text{mols L}^{-1}$) | Reaction volume (L) | Mass of solid (g) |
|-----------------------|-------|---|------------------------|----------------------|
| Granular ZVI | 7.65 | 100 | 0.0200 | 0.20 |
| | 9.02 | 100 | 0.0200 | 0.20 |
| | 12.11 | 100 | 0.0200 | 0.20 |
| | 12.17 | 100 | 0.0200 | 0.20 |
| GR-CO ₃ | 10.98 | 1000 | 0.0116 | 0.12 |
| | 12.31 | 1000 | 0.0128 | 0.13 |
| | 12.45 | 1000 | 0.0063 | 0.06 |
| GR-Zn-CO ₃ | 10.49 | 1000 | 0.0119 | 0.19 |
| | 12.29 | 1000 | 0.0074 | 0.07 |
| | 12.19 | 1000 | 0.0091 | 0.09 |