

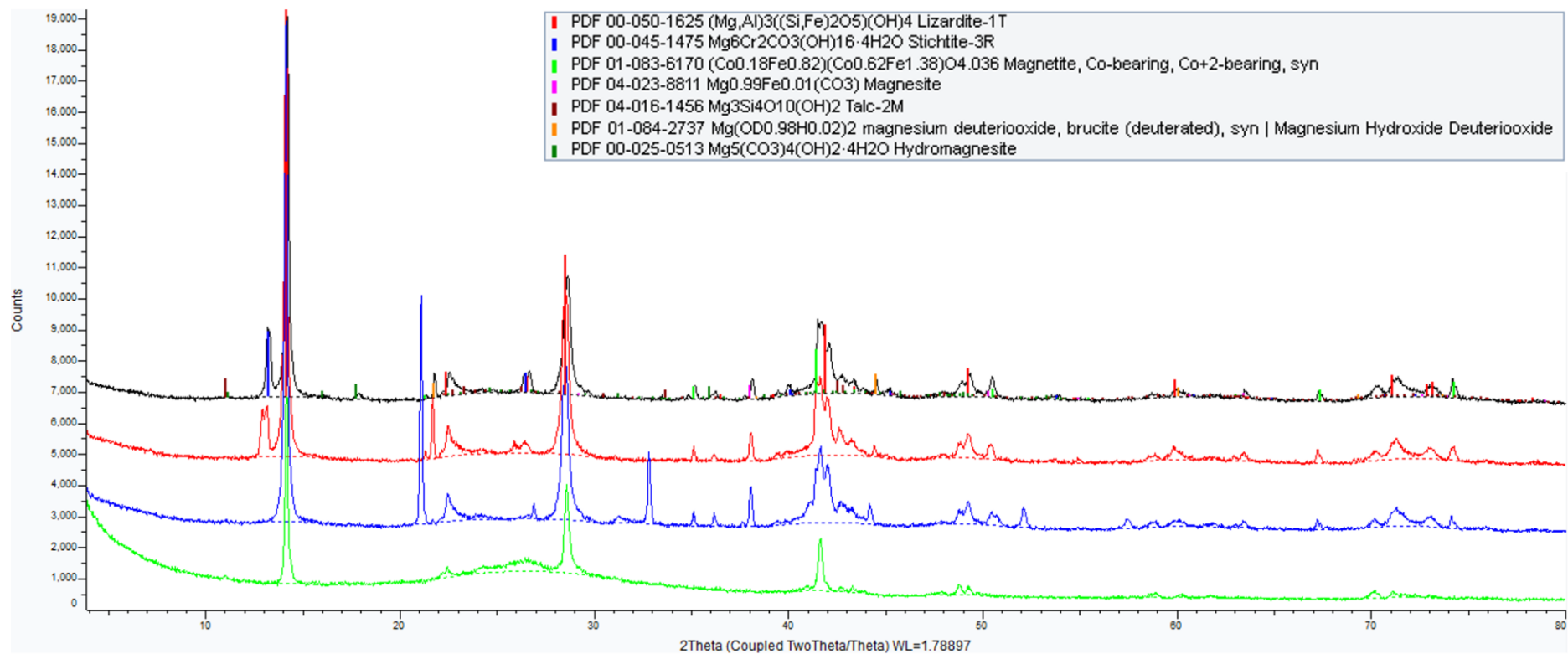
## **Supplementary Material**

### **Effect of wetting and drying processes on ultramafic and mafic tailing minerals amended with topsoil**

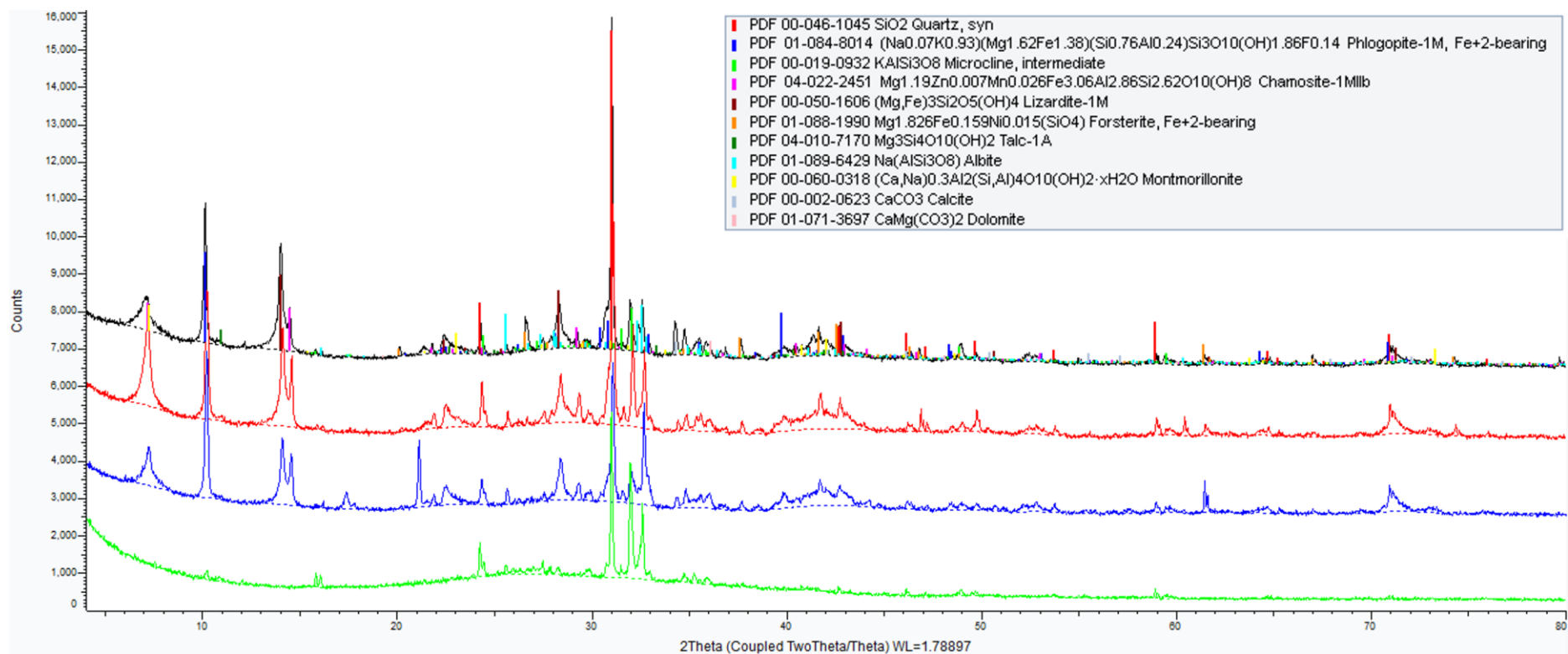
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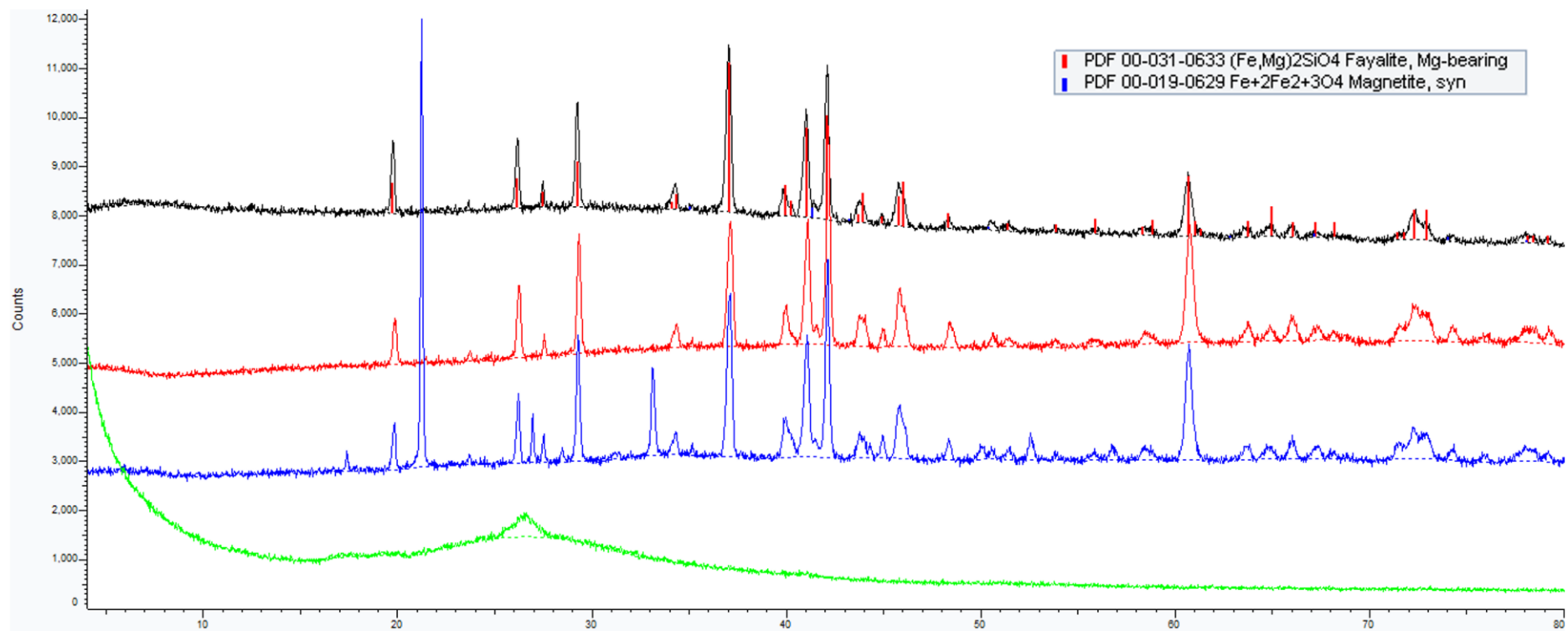
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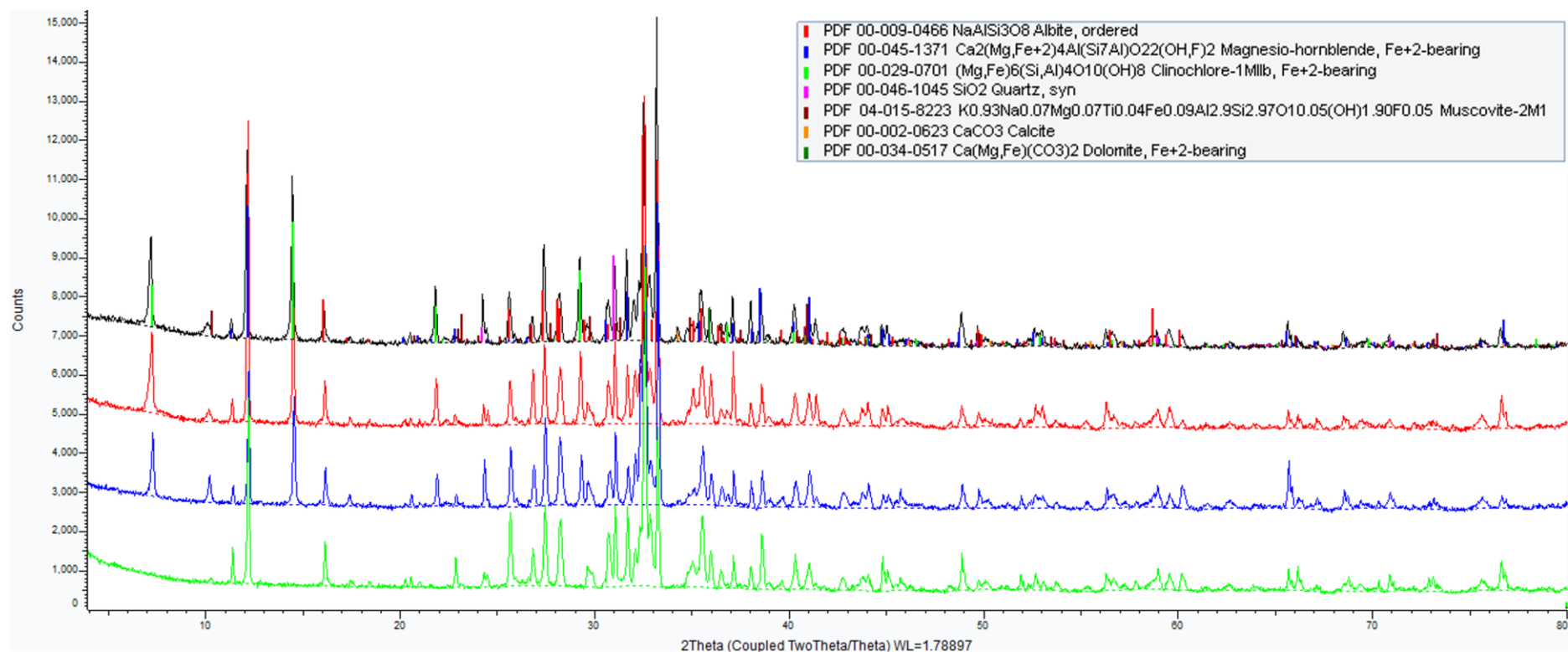
**Fig. S1.** X-Ray diffraction results for serpentinite (MKKNi) sample with tailings in black, hydrochloric acid extraction in red, acid ammonium oxalate extraction in blue and aqua regia extraction in red.



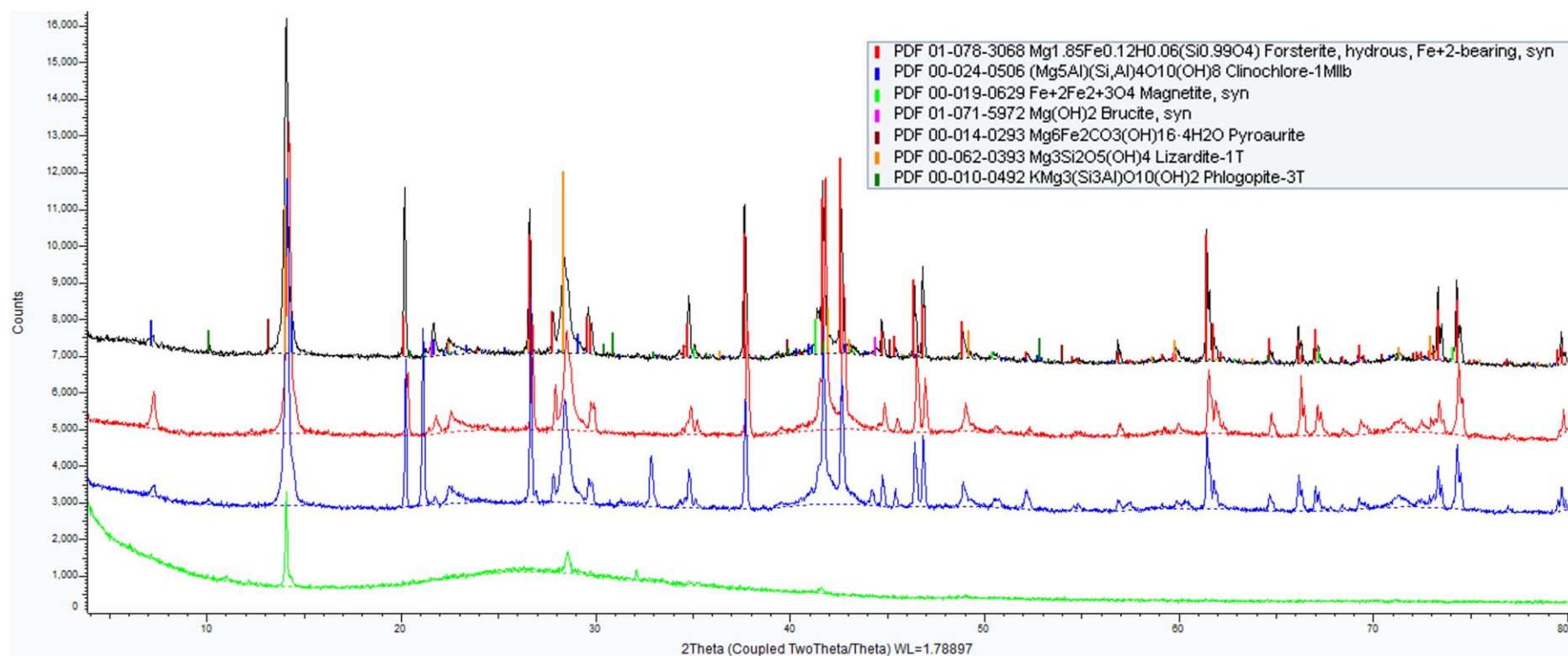
**Fig. S2.** X-Ray diffraction results for fine processed kimberlite diamond (FPK) sample with tailings in black, hydrochloric acid extraction in red, acid ammonium oxalate extraction in blue and aqua regia extraction in red.



**Fig. S3.** X-Ray diffraction results for nickel smelter granulated slag (SS) sample with tailings in black, hydrochloric acid extraction in red, acid ammonium oxalate extraction in blue and aqua regia extraction in red.



**Fig. S4.** X-Ray diffraction results for gabbro deposit (GT) sample with tailings in black, hydrochloric acid extraction in red, acid ammonium oxalate extraction in blue and aqua regia extraction in red.



**Fig. S5.** X-Ray diffraction results for serpentinised intrusive (GINi) sample with tailings in black, hydrochloric acid extraction in red, acid ammonium oxalate extraction in blue and aqua regia extraction in red.