

Online Resource ESM 1

Back-scattered image of a slag phase from A, B and C horizons and complementary EDX spectral map (GXMAP) by the automated SEM Mineral Liberation Analysis (MLA).

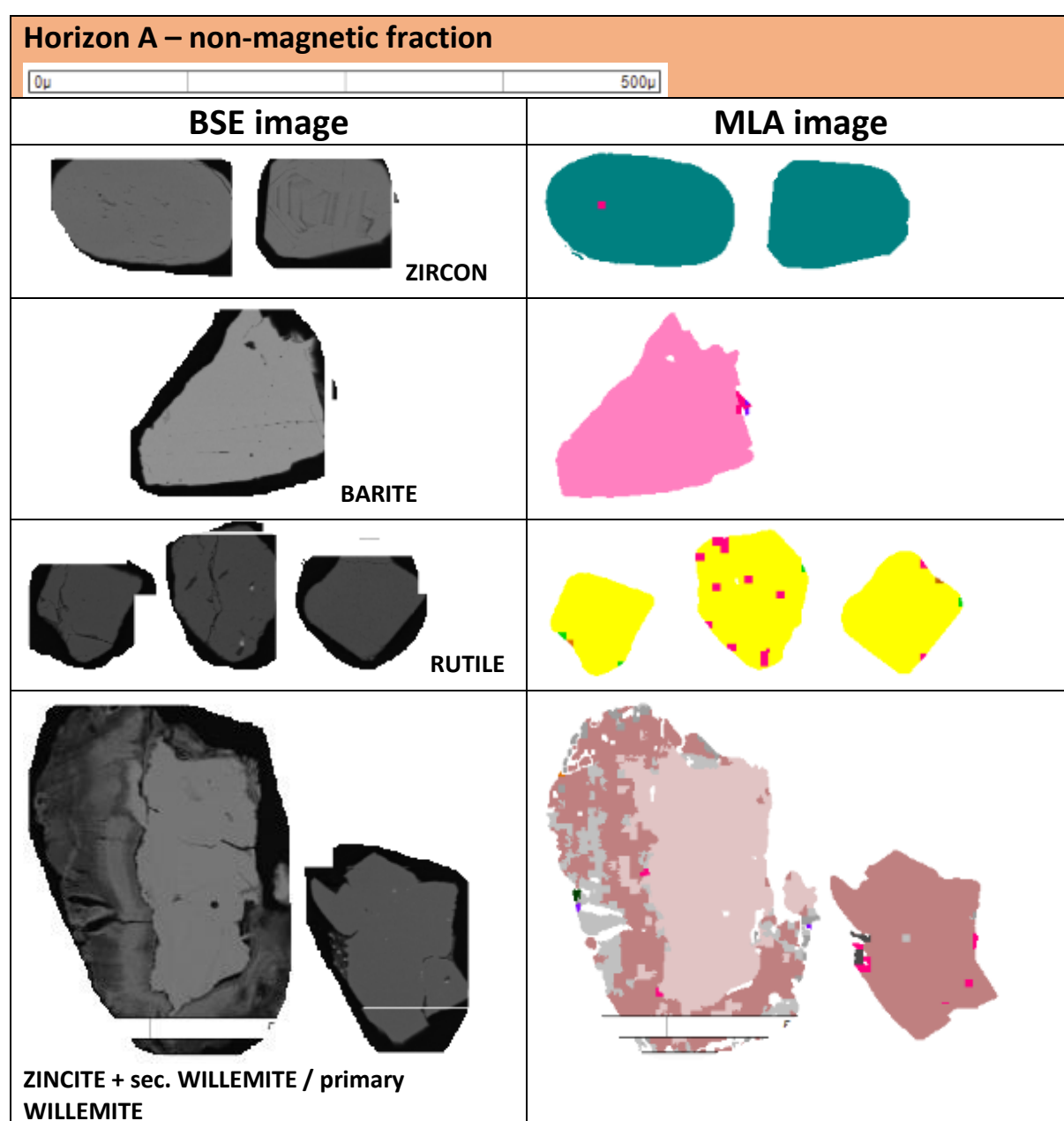
In: Diverse sources and weathering processes in Zn-Pb slag heap detected by automated SEM Mineral Liberation Analysis: a prospective tool to understand complex substrates for Technosol development by Pietranik A.¹, Kierczak J.¹, Tyszkla R.², Schulz B.³

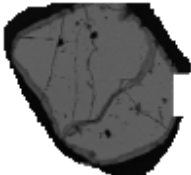

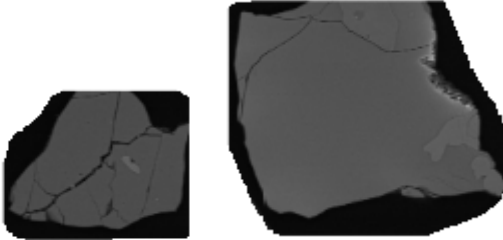

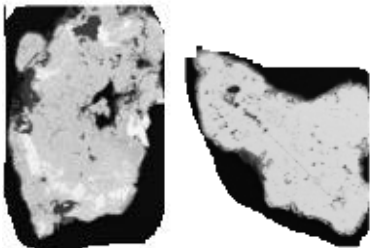
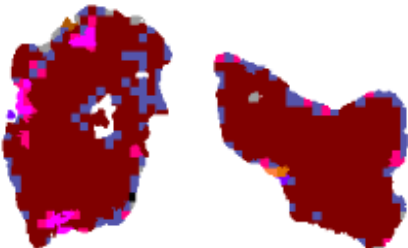
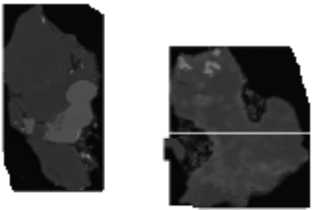



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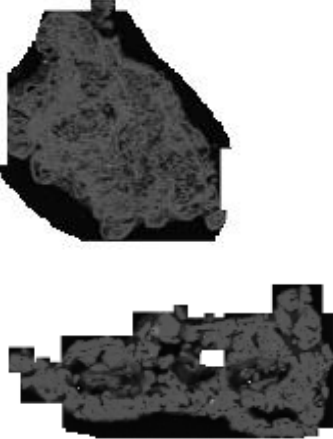



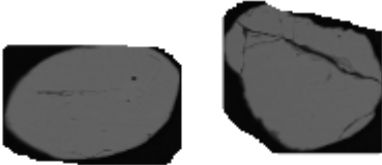







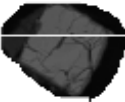

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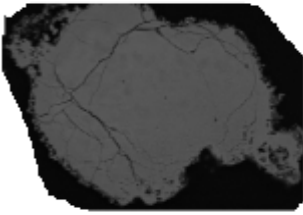

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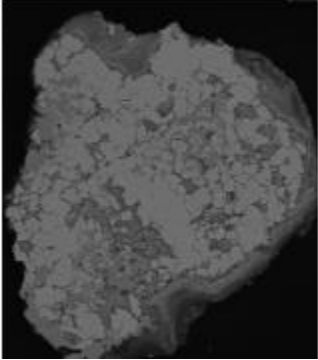
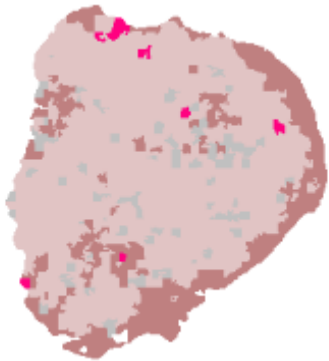
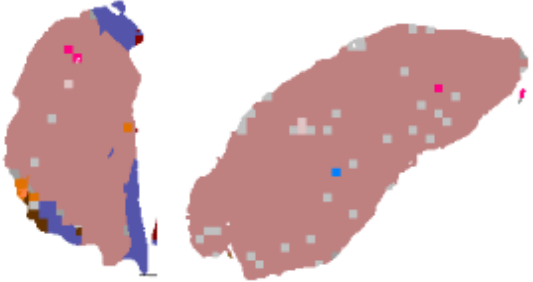
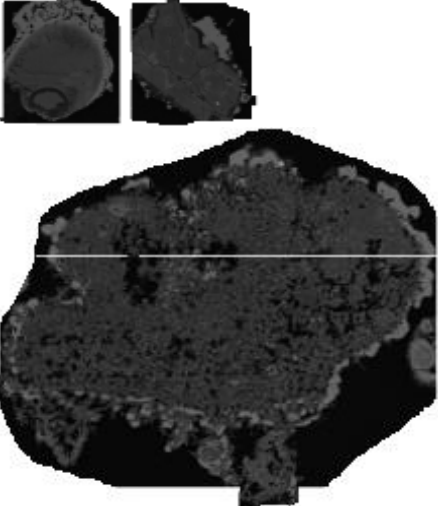

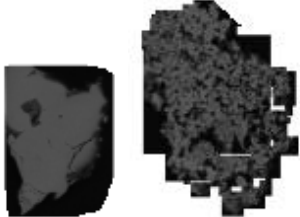
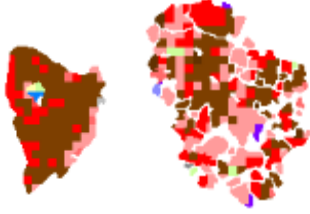
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 <p>PIRITE</p>	
 <p>Pb-HARDYSTONITE + spinel and multi-phases</p>	
 <p>Pb-OXIDE surrounded by GLASS (secondary silica gel)</p>	
Horizon A – magnetic fraction	
 <p>DIOPSIDE with spinels and multi-phases</p>	
 <p>GLASS</p>	

 <p>HEMATITE with spinels and multi-phases</p>	
 <p>FRANKLINITE</p>	
<p>Horizon B – non-magnetic</p> <div> <div>0μ</div> <div>500μ</div> </div>	
 <p>ZIRCON</p>	
 <p>RUTILE</p>	
 <p>BARITE</p>	
 <p>CHLORITOID</p>	
 <p>PIRITE</p>	

 <p>TITANITE</p>	
Horizon B – magnetic <div> <div>0μ</div> <div>500μ</div> </div>	
 <p>HEMATITE</p>	
 <p>ILMENITE</p>	
 <p>GARNET (identified as glass)</p>	
 <p>ZOISITE (identified as multi-phase)</p>	
Horizon C – non-magnetic <div> <div>0μ</div> <div>500μ</div> </div>	
 <p>Pb-HARDYSTONITE surrounded by WILLEMITE and multi-phases</p>	

 <p>ZINCITE and PRIMARY and SECONDARY WILLEMITE</p>	
<p>PRIMARY WILLEMITE</p>	
<p>Horizon C – magnetic</p> <div> 0μ 500μ </div>	
 <p>DIOPSIDE and MULTI-PHASES</p>	
 <p>SPINEL and MULTI-PHASES</p>	



HEMATITE and SPINEL

