**GLI Method Summary**


**Governing SOP:** G-30B Rev 10  
**Analyte:** Various  
**Range:** ppm–%  

| Decomposition Procedure | The sample is charred using H₂SO₄. If analyzing for metals that form insoluble sulfates, HClO₄ and HNO₃ are used to char the organic material. H₂O₂ may be added to assist in the digestion of organic material also. After charring the sample, HNO₃ is added and the sample is refluxed to solubilize the metals present. If the solution becomes cloudy, HCl is added to affect complete digestion. HF can be used if silicon is present in the sample but is not an analyte of interest. All HF used is restricted to Teflon vessels. The clear digestate is quantitatively transferred to a Class A volumetric flask and brought to final volume. The sample is now ready for analysis. |

**References**
