

Phytoremediation of soil -
contaminated with heavy
metals using *Conocarpus
lancifolius*. tree

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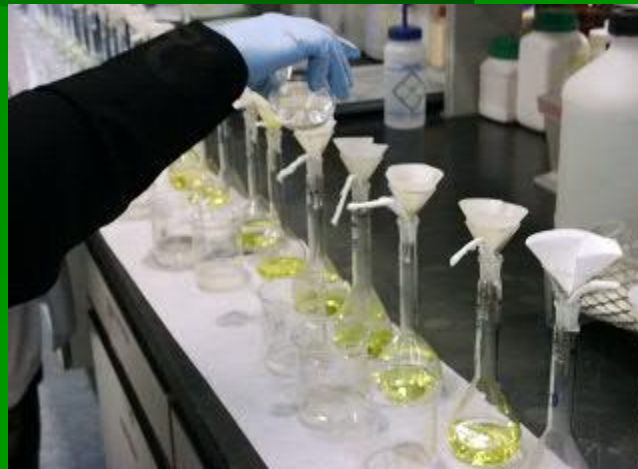
Material and Methods:

- Site description
- Soil and plant sampling and preparation
- Microbiological analysis
- TEM and TPH Analysis
- Mineral and heavy metal analysis

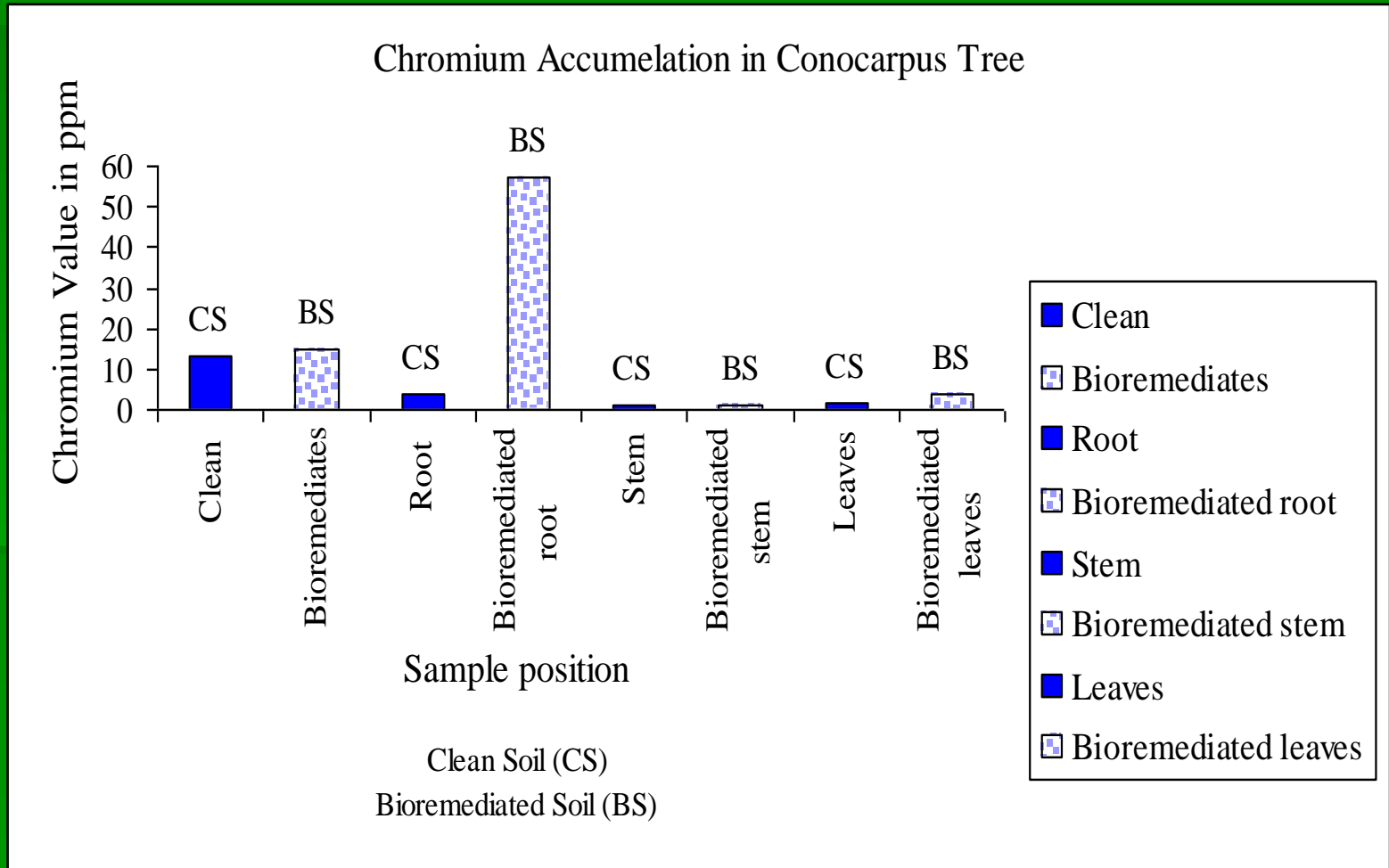


Result and discussion:

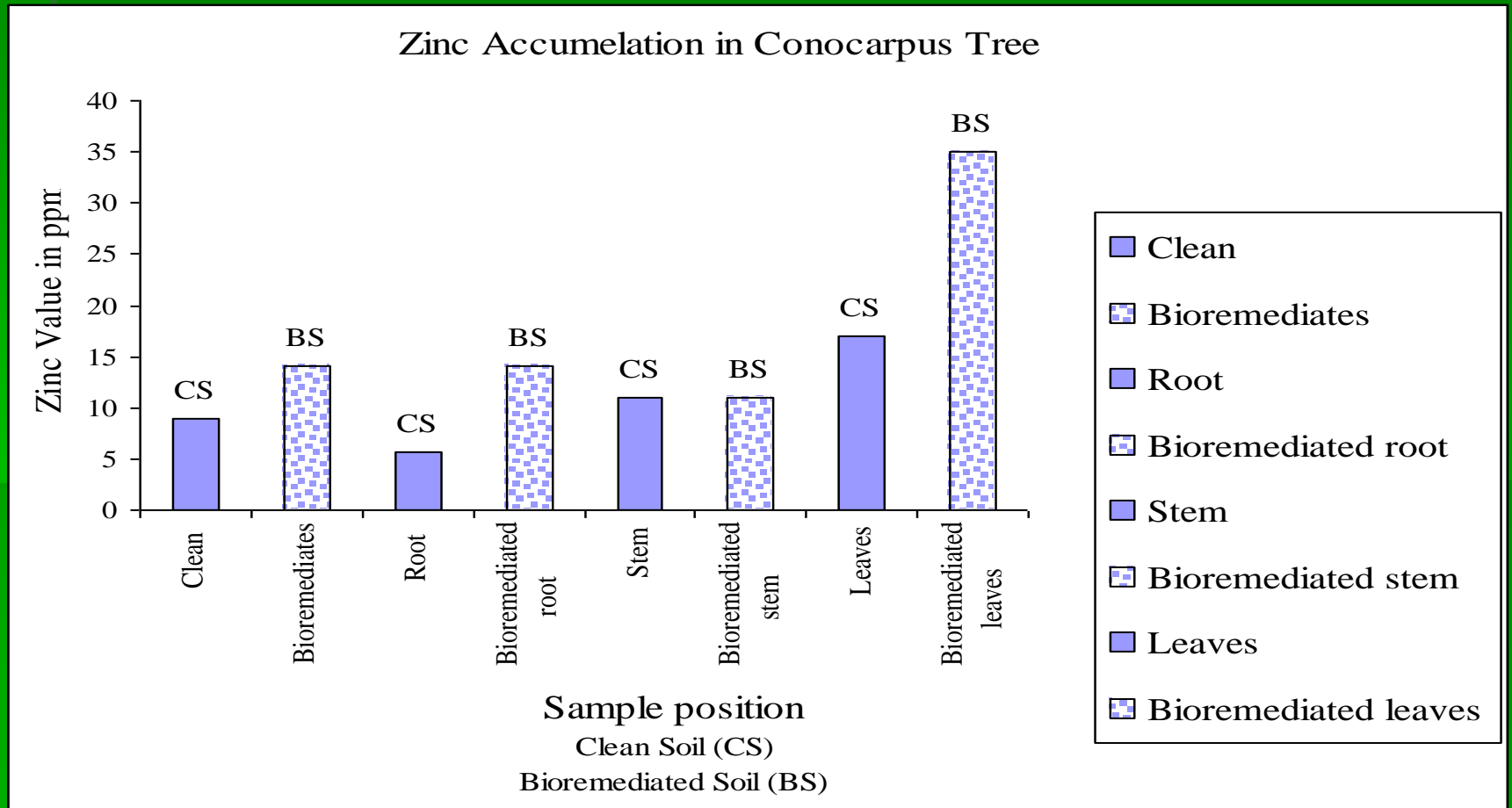
- Microbiological Characteristics
- TEM and TPH Concentration
- Mineral and heavy metal concentration



Chromium accumulation in Conocarpus tree



Zinc accumulation in Conocarpus tree



Conclusion

- The *Conocarpus* tree knows to be able to survive in a wide range of soil conditions including high level of mineral and heavy metals.
- Plants have developed several mechanisms to tolerate toxic levels of heavy metals. The results showed that *conocarpus* trees are able to uptake high levels of chromium (Cr), vanadium (V), and nickel (Ni) and accumulate them in plant roots.

