



# Remediation of Altered Landscapes

Native plants provide a viable alternative for remediating contaminated sites. **Phytoremediation** takes advantage of native plant processes to remove, remediate or contain environmental contaminants. It provides an attractive alternative to more expensive and labour-intensive engineering approaches to treat contaminated or degraded water, soils and altered habitats.

## Why use native plants to remediate?

**A sustainable choice** — Native plant species are naturally adapted to our climatic conditions in Canada. This makes them a truly sustainable choice for remediation. They provide long-lived and low-maintenance ground cover. Each stand of native species can be customized to your location so there is always vegetative cover on the land throughout the remediation process, and as growing conditions change with the seasons.

**Economic advantage** — Native uplands are low maintenance. They require rejuvenation about every five years using various management techniques. This means lower maintenance costs, with no need to water or fertilize.

**Ecological benefits** — The deep rooting systems of native plants promote the remediation of pollutants through processes such as uptake and concentration, transformation, stabilization, volatilization and rhizosphere degradation. Once established, they are also resilient against nuisance and invasive species, and they possess better defence systems against pests and diseases than non-native plant species.

Their deep roots also sequester significant amounts of atmospheric carbon while their aboveground plant structures provide quality habitat for wildlife while managing the impacts of wind, water and soil erosion.



## Where to remediate?

- ✓ Parking lots and transportation rights of way (ROWs)
- ✓ Mine tailing and brownfield sites
- ✓ Contaminated soils and waters
- ✓ Erosion prone locations

## Our services

- ✓ Site assessment, site design, plant selection and procurement
- ✓ Site preparation, on-site construction services, including installation of selected plant material
- ✓ Post-planting management and weed control
- ✓ Water and soil testing, and interpretation of the results
- ✓ Regulatory support for clients, including project reporting

## Why choose Native Plant Solutions?

NPS specializes in water and soil chemistry, environmental contaminants and the fate of these contaminants when left unmanaged. Added to this is our in-depth knowledge of aquatic, riparian and upland native plants, and their potential to remediate altered soils and waters depending on the contaminants of concern.



To learn more about NPS, our projects and expertise, visit [nativeplantsolutions.ca](https://nativeplantsolutions.ca)