

*Nelson Environmental
Remediation Ltd.*

Clean Dirt, No Doubt



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THERMAL REMEDIATION

“MADE SIMPLE”



Nelson Environmental Remediation Ltd.



Soil Preparation

- Screening & Removal of Rock and Debris
- Homogenize Soil (uniform hydrocarbon levels)



Soil Preparation

- Reduce Moisture (if possible)
- Shredding of cohesive clay



Desorbption in Kiln

- Heating of Soil to 200 – 600°C
- Retention time 5 – 15 minutes
- Volatiles are vaporized



Desorbption in Kiln

- Soil discharged clean & re-hydrated
- Volatiles, steam & dust sent to baghouse



Emissions Control Equipment

- Removal of Dust Particulate
- Dust returned to soil stream
- Volatiles sent to Oxidizer



Oxidizer

- Volatiles heated to 870°C
- O₂ added to air stream
- One second plus retention



Oxidizer

- Destruction of Volatiles at 99.99 or greater efficiency
- Emissions of N (70-80%), CO₂ (8%), O₂ (7-11%) and Water vapor (balance)




Panoramic View



Treated Soil in Cells



Nelson Environmental Remediation Delivers

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- Predictable Time Frame
 - Mobile Equipment
 - Measured Quantity
 - Competitive Pricing
 - Billing on Results