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2018 Salish Sea Ecosystem Conference
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Alternatives to disposing dredged wood waste at sea

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Alternatives to disposing dredged wood waste at sea



Tiffany Paul, P.Eng, MEP
Salish Sea Ecosystem Conference
Seattle WA | April 6, 2018

Characteristics of dredged wood waste



- High moisture
- High Salt
- Heterogeneous
- mixed with sediment and rock

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Landfill

- Existing multi-user
- Wood waste specific



Confined Disposal

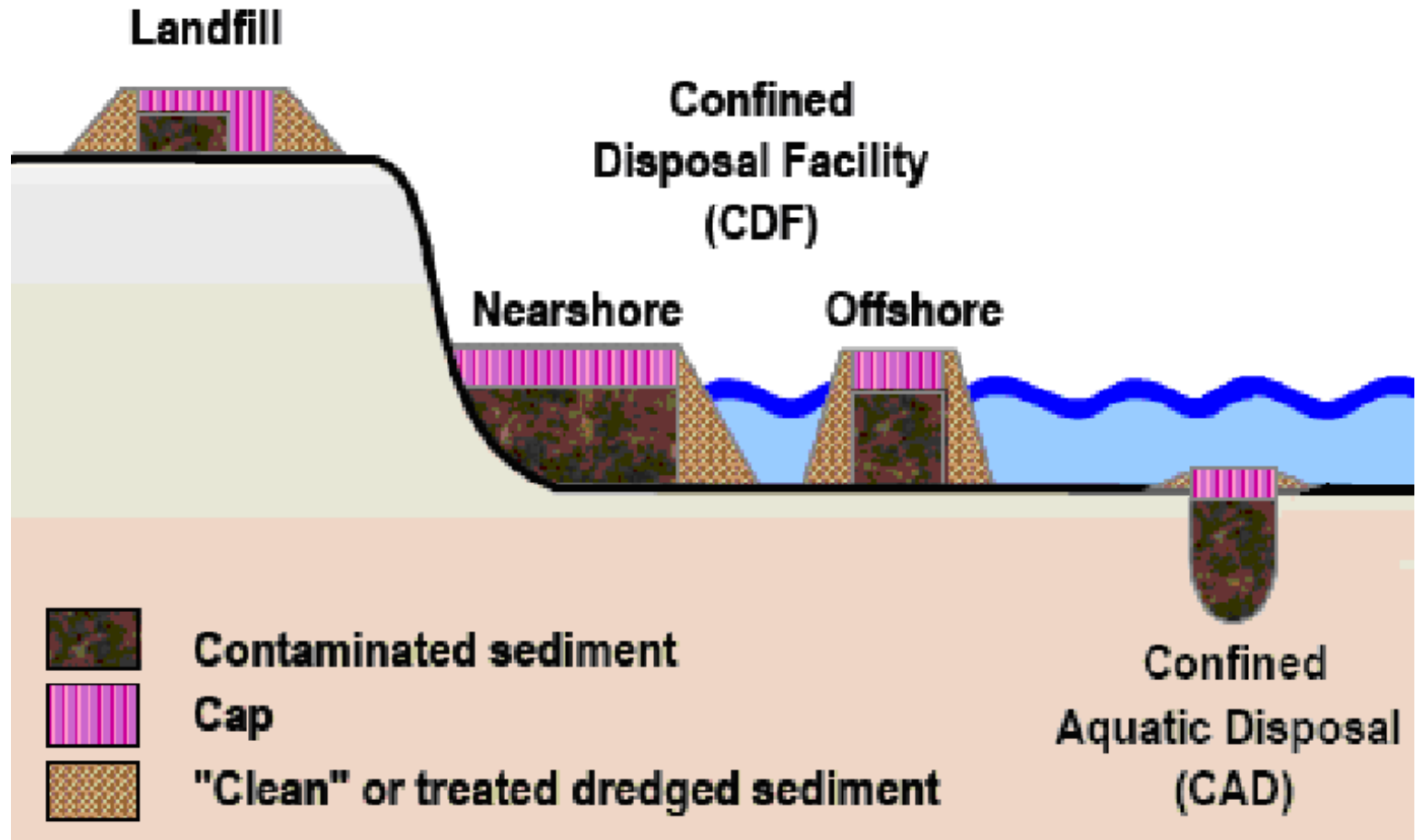


Figure: Andrea Lodolo, ResearchGate

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Combustion of Wood Waste

- Combustion to produce power or heat



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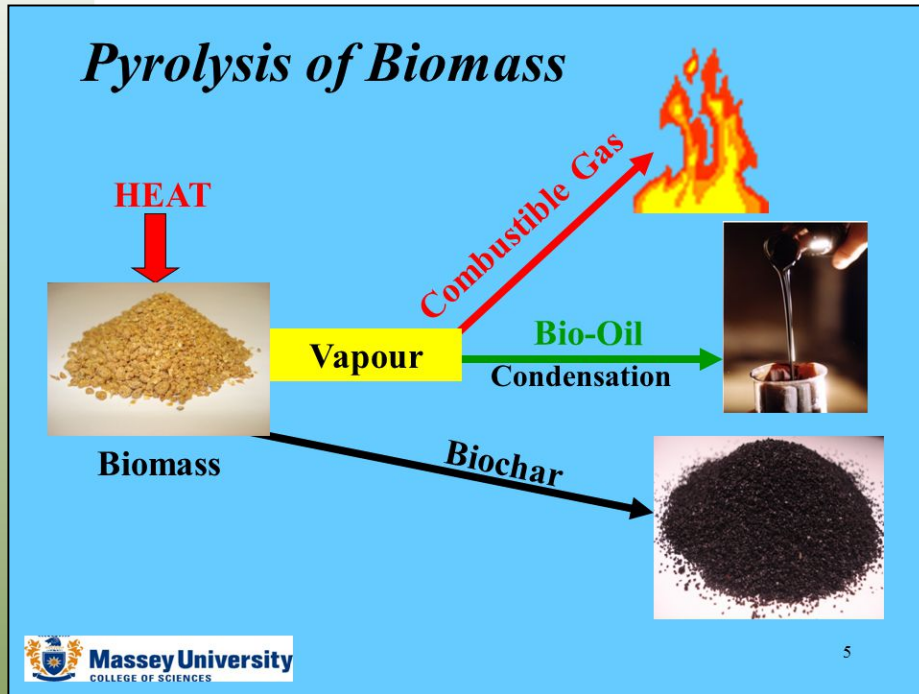


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Biomass Gasification or Pyrolysis



Gasification
Process



Composting Wood Waste



Sea Soil facility in Port McNeill, BC



Direct Application to Land



Evaluation of Alternatives

- Disposal at sea is the lowest cost disposal option
- Environmental costs and human health risks are low for disposal at sea and alternatives
- Some alternatives have environmental benefits
- More site-specific alternatives assessment needed



To Learn More Contact...

ECCC Disposal at Sea Program

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[www.ec.gc.ca/iem-das,](http://www.ec.gc.ca/iem-das)