

The logo consists of two curved lines, one blue and one green, arching over the text. The text 'ENERGY SOLUTIONS' is centered, with 'ENERGY' in blue and 'SOLUTIONS' in white. Two horizontal lines, one blue and one green, extend from the left and right sides of the text.

**ENERGY SOLUTIONS**

Perspectives on Treatment Capacity

By Paul Larsen,  
Presented by Johnny Bowne

# MWT Operations

- Clive Mixed Waste Treatment and Disposal
  - Stabilization
  - Solidification
  - Vacuum Thermal Desorption (VTD)
  - Macroencapsulation
- Bear Creek Waste Treatment and Processing
  - Stabilization
  - Macroencapsulation



## Clive MWT Estimated Capabilities



## PCB Treatment Capabilities at Clive

- ANY type of PCBs – No limits, No restrictions: 1,000,000 ppm
- Approval to shred PCB Large Capacitors (and other waste contaminated with PCBs)
- Approval to drain and flush PCB Transformers
- Aqueous incidental PCB liquids may be solidified and disposed
  - EPA Region 8 Coordinated Approval Jan 28, 2010 (for above three items)
- Now may receive air and water reactive wastes (previously restricted)



## Looking Ahead

- Treatment Capacity does not appear to be an issue
- Significant Hg treatment capacity
- All subcategories:
- Elemental
  - Must meet characteristic concentration (0.2 mg/L TCLP)
  - Use a proprietary 2-step process (AMLGM – STABL)
- Low Subcategory (<260 mg/kg total mercury)
  - Must meet UTS (0.025 mg/L TCLP)
- High Subcategory (>260 mg/kg total mercury)
  - Variance from State of Utah to perform Stabilization-type treatment
  - Must meet characteristic concentration (0.2 mg/L TCLP)
  - Variance renewed annually (per rule)
- Renewed 10 times since November, 2001





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*Paul Larsen*

*801.560.3091*

*plarsen@energysolutions.com*

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# ENERGY SOLUTIONS

*Treatment Capabilities*

*Backup Slides*

# Clive Site

