US EPA ARCHIVE DOCUMENT

ConCover®
THE COVER ALTERNATIVE FOR WASTE DISPOSAL
BLUESTEM

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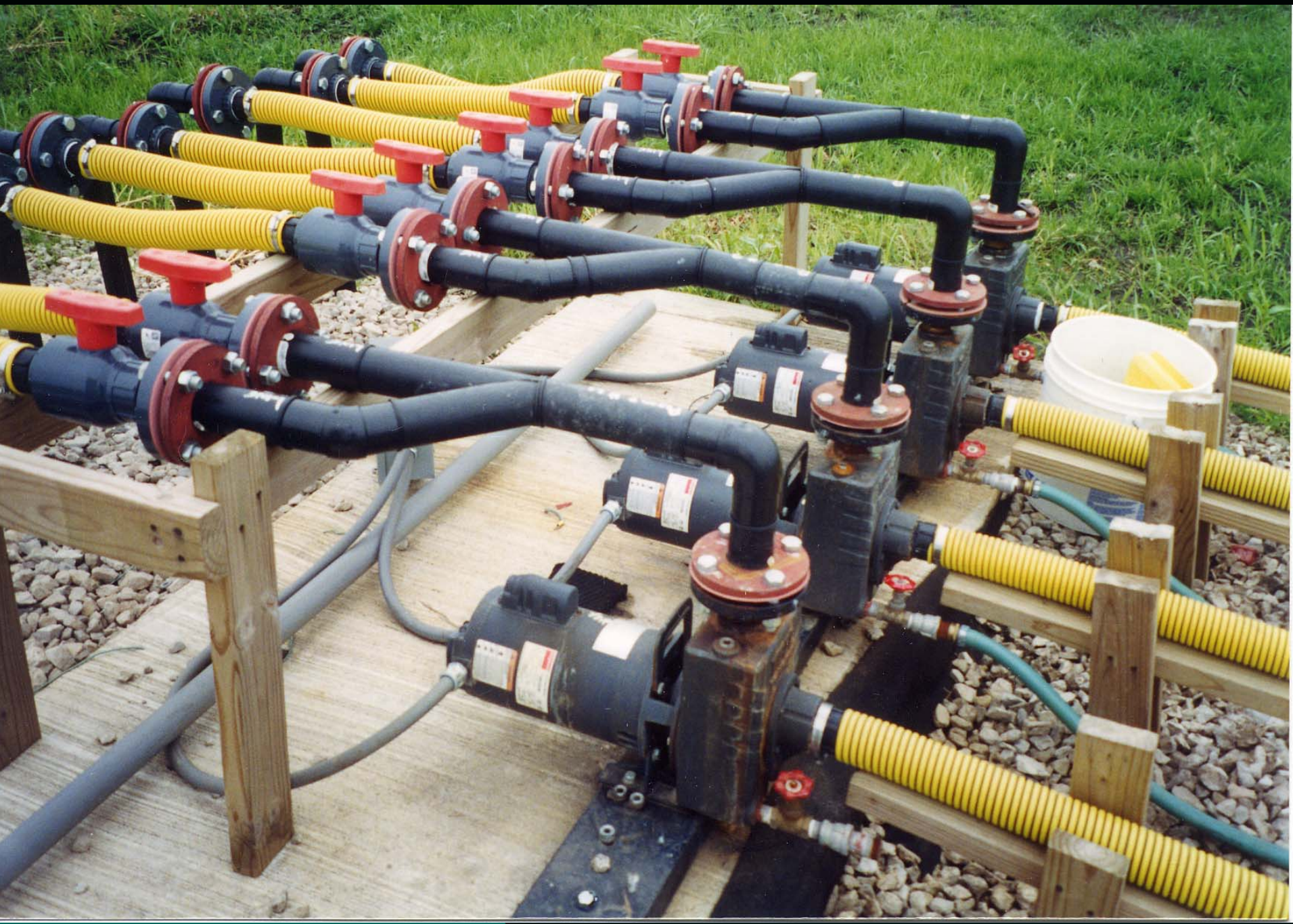
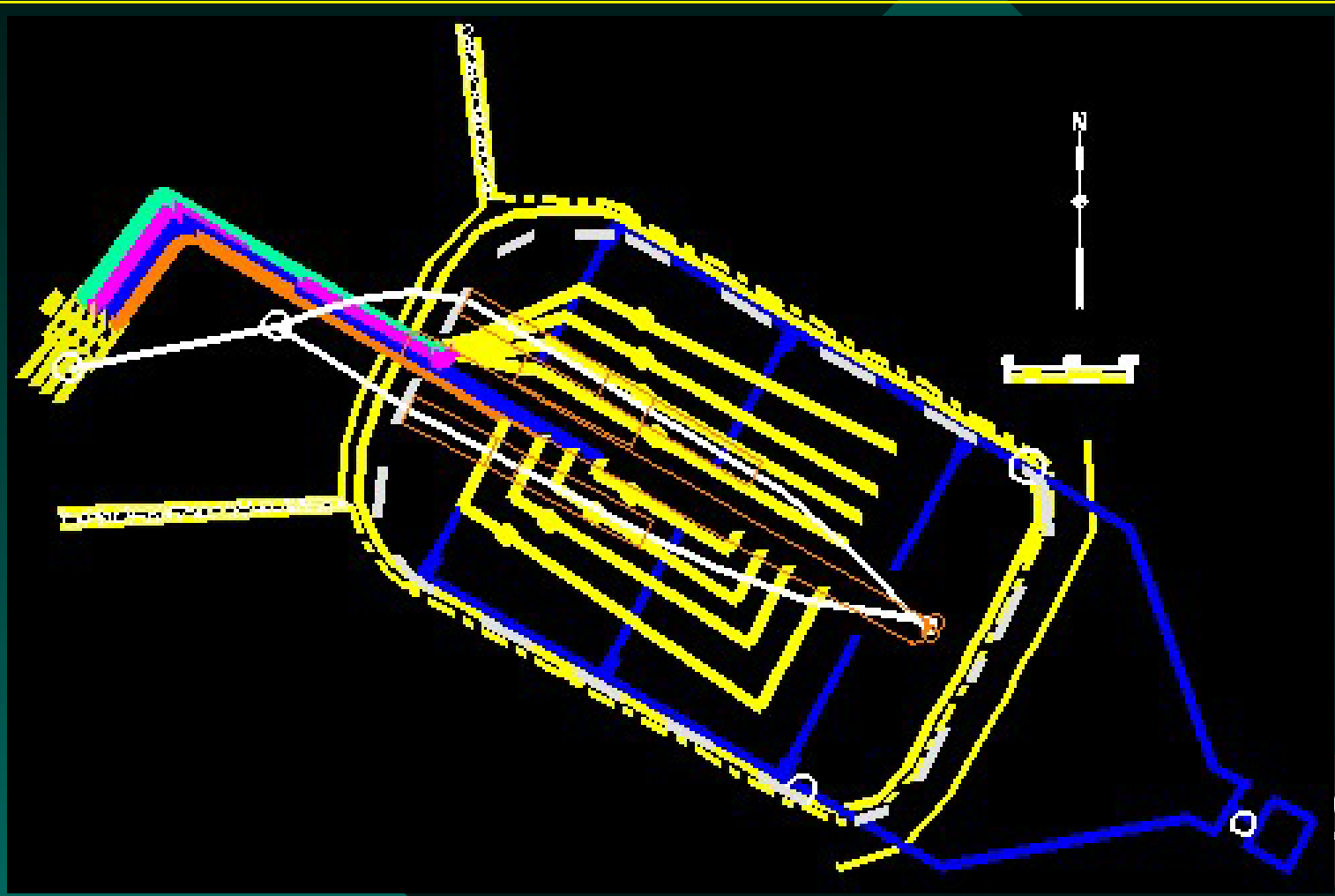


Bioreactor Layout



Operational Experience

- Leachate seep
- Exposed cap damage
- Recirculation frequency
- Winter operations
- Biofilter odor control
- Pump efficacy

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Data Collection

- Data collected and frequency
  - Temperature (daily)
  - Subsidence (quarterly)
  - Recirculation pump data (daily)
  - Liquids addition (as added)
  - Leachate data
  - LFG data

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Data Collection

- Data collected and frequency (con't)
  - Leachate head
  - 2003 Flowmeters installed
  - Time capsules (1-2 per year)
  - Leachate discharge flow rate in 2003

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Results

- Temperature data
- Subsidence
- Leachate data
- LFG data
- Time capsule

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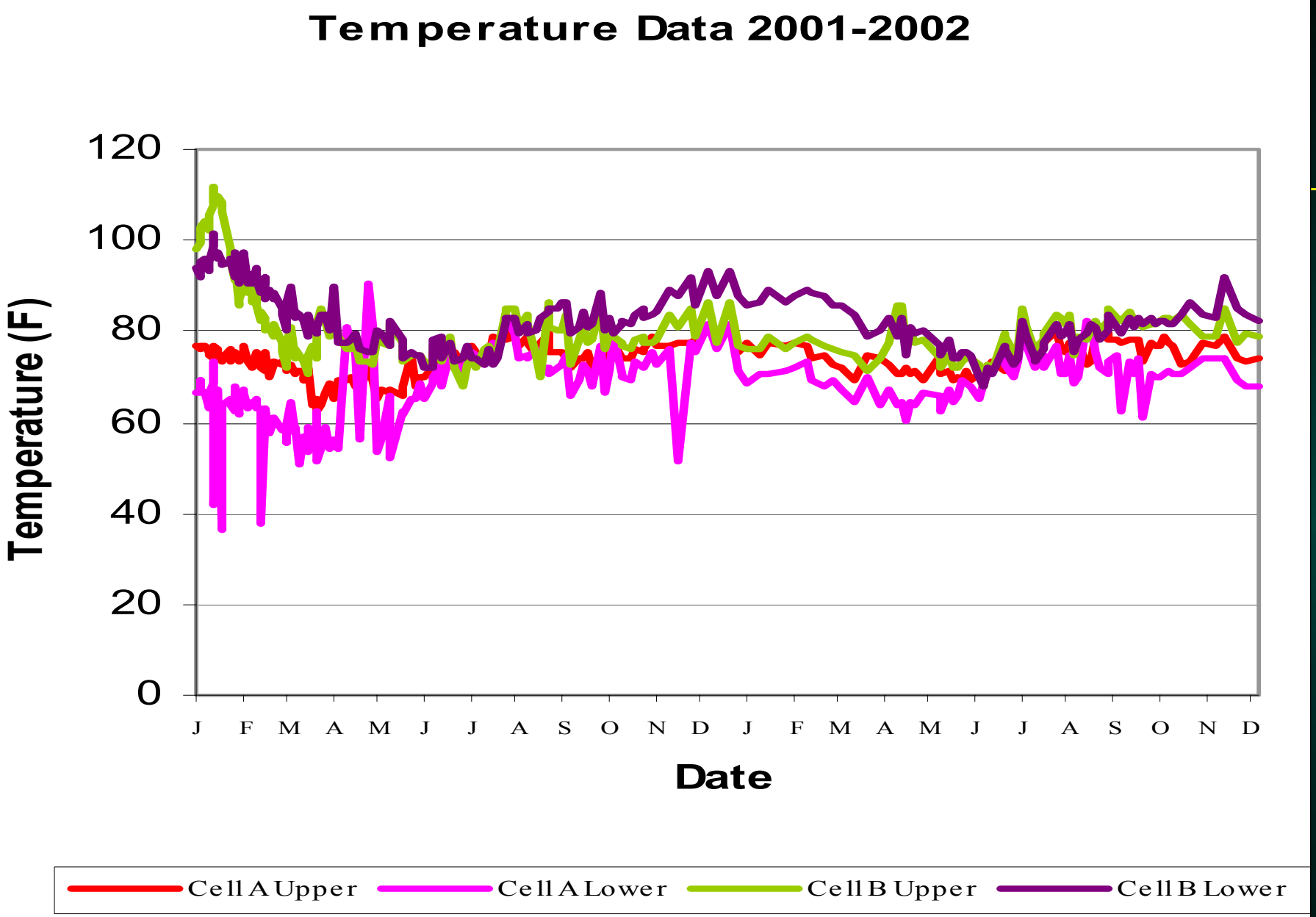
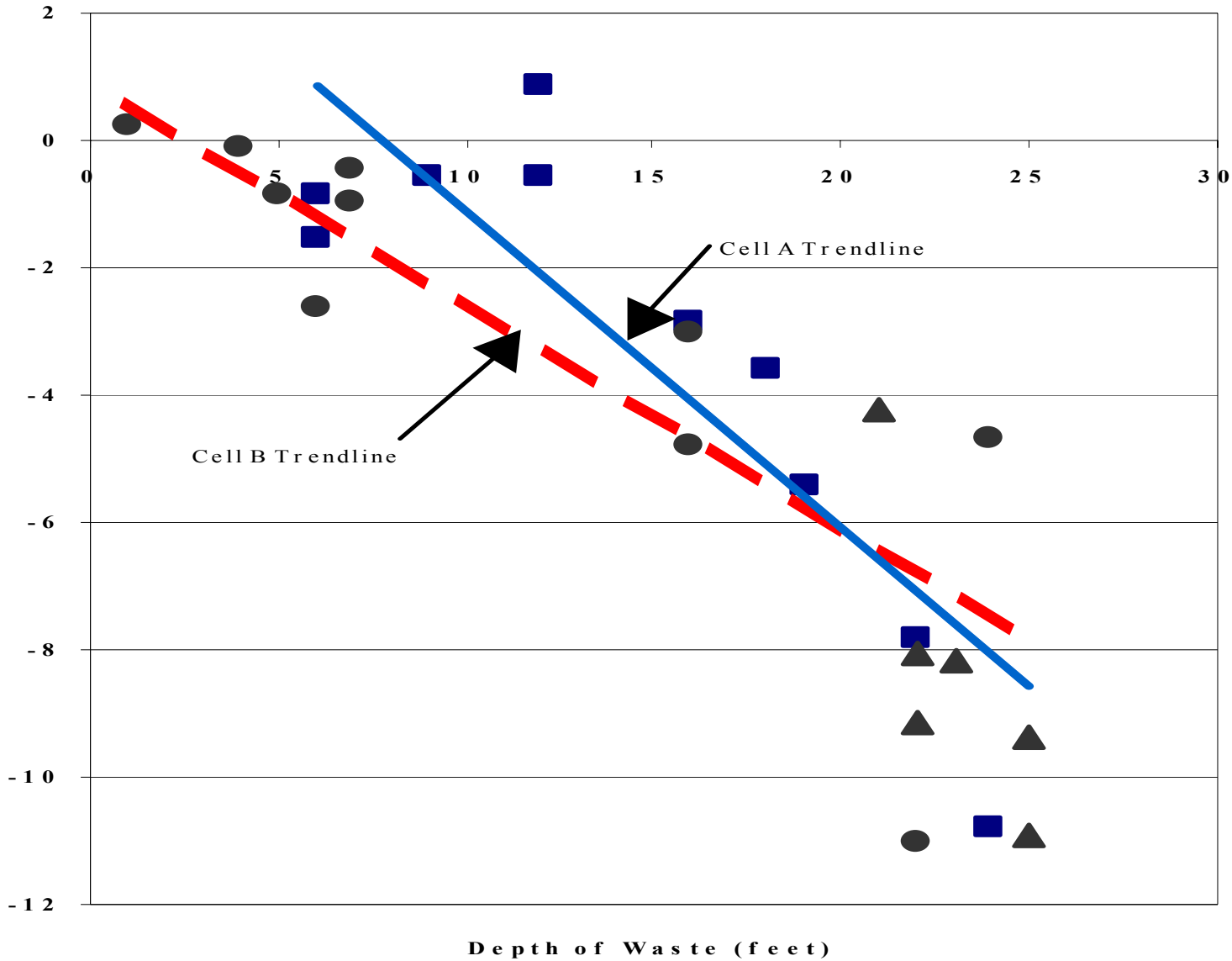

Temperature Data 2001-2002
Temperature (F)
120
100
80
60
40
20
0
J F M A M J J A S O N D J F M A M J J A S O N D
Date
Cell A Upper
Cell A Lower
Cell B Upper
Cell B Lower


Subsidence Data
2
0
-2
-4
-6
-8
-10
-12
0
5
10
15
20
25
30
Cell A Trendline
Cell B Trendline
Depth of Waste (feet)

Leachate Data

- COD
  - 2001 560 to 2,500 mg/l
  - 2002 2,600 to 2,900 mg/l
- Volatile Acids
  - 2001 1,000 to 1,600 mg/l
  - 2002 175 to 380 mg/l

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