

# Waste to Watts

Circular Economy Pathways to  
Reduce Landfill Methane

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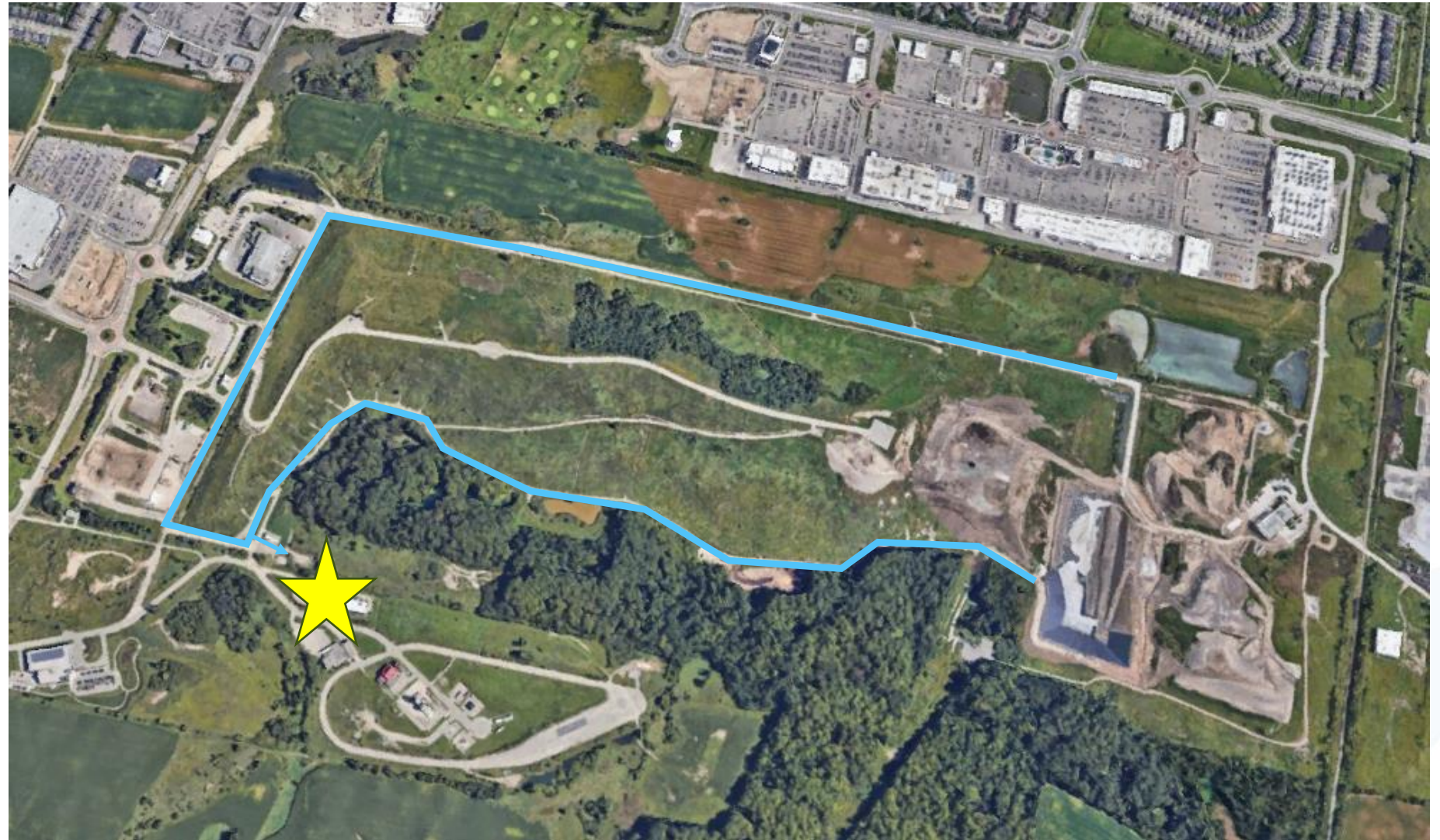
Region of Waterloo

# Waterloo Landfill

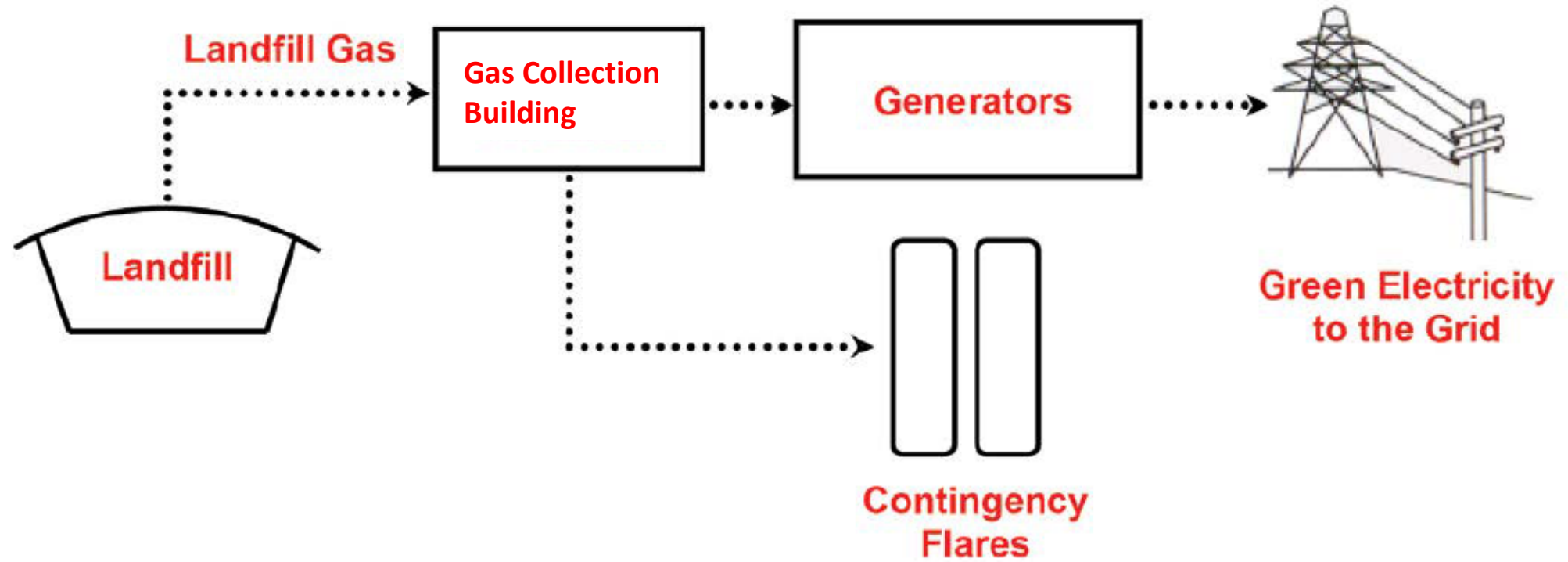
Active Landfilling site

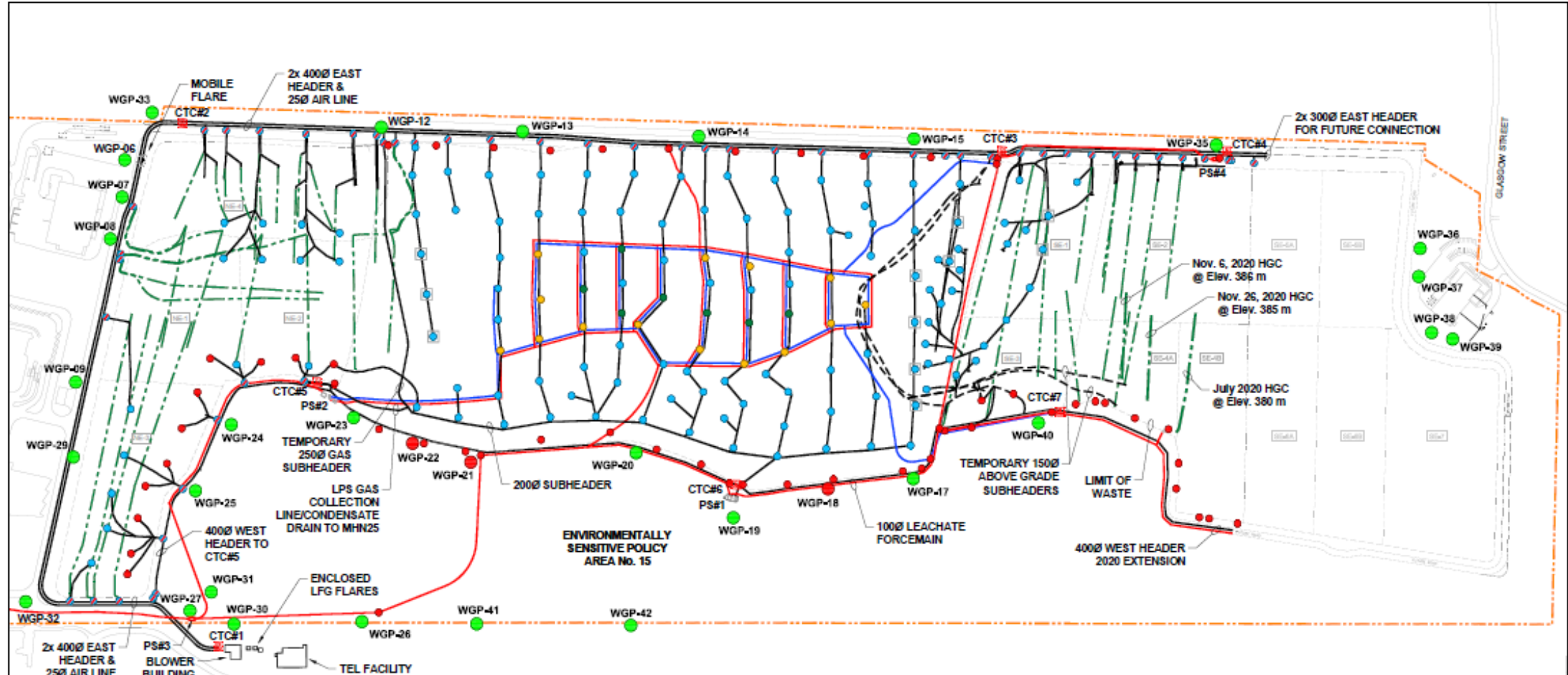
★ Region Gas  
Collection  
building and  
Electricity  
generation Plant

→ Gas Collection

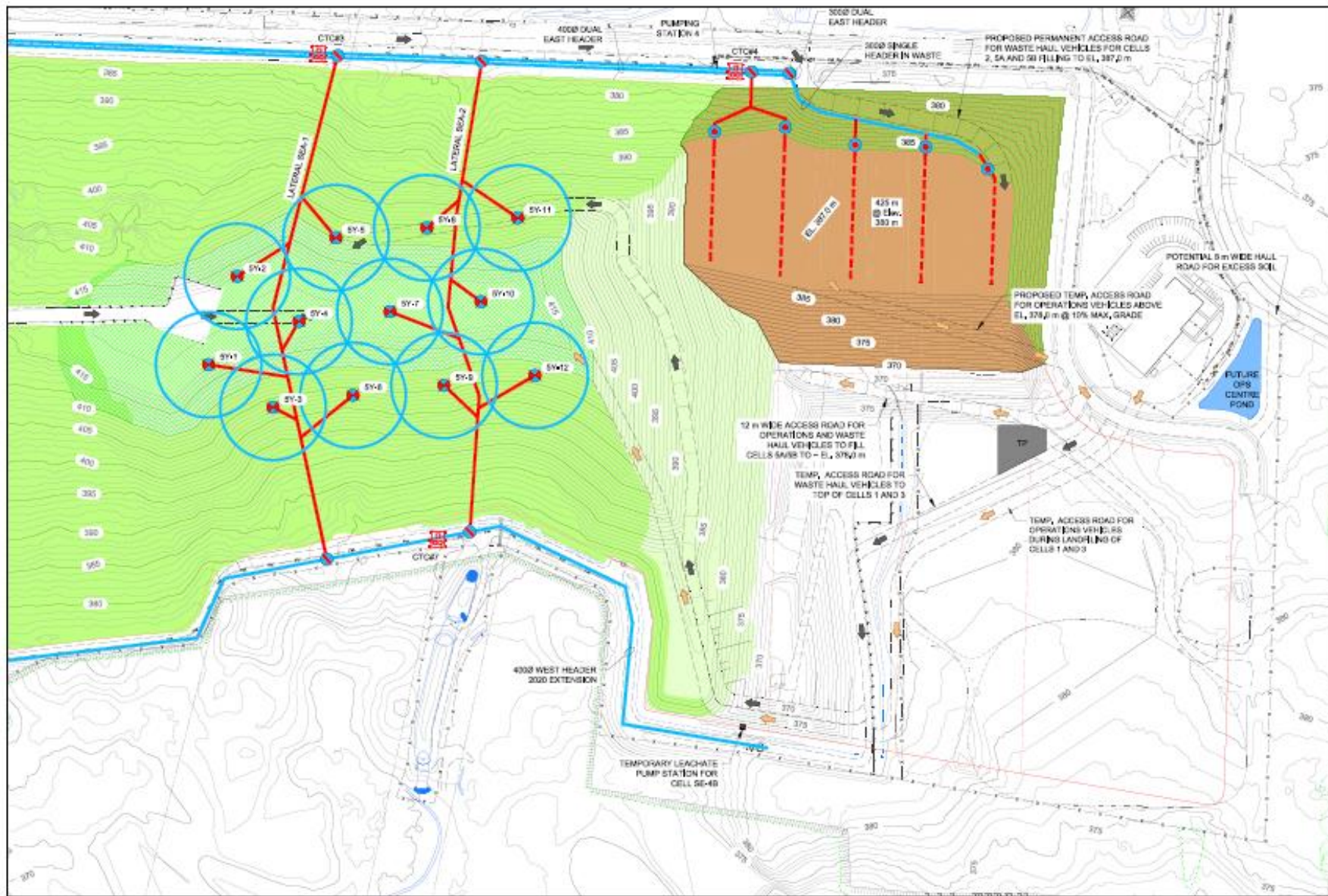


The conceptual diagram below depicts the layout of the gas control system at Waterloo.





- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>--- PROPERTY BOUNDARY</li> <li>— BURIED LANDFILL GAS COLLECTION PIPING</li> <li>- - - ABOVE GRADE LANDFILL GAS COLLECTION PIPING</li> <li>- - - LANDFILL GAS HORIZONTAL COLLECTOR</li> <li>- - - LEACHATE/CONDENSATE FORCEMAIN PIPING</li> <li>— COMPRESSED AIR PIPING</li> </ul> | <ul style="list-style-type: none"> <li>● LFG VALVE CHAMBER</li> <li>● LFG EXTRACTION WELL</li> <li>● ABANDONED LFG EXTRACTION WELL</li> <li>● LEACHATE EXTRACTION WELL</li> <li>● LEACHATE/GAS EXTRACTION WELL</li> <li>● LEACHATE MANHOLE</li> <li>■ CONDENSATE TRAP CHAMBER</li> </ul> | <ul style="list-style-type: none"> <li>● COMPLIANT GAS PROBE</li> <li>● GAS PROBE EXCEEDANCE</li> </ul> |
|--|--|---|



- LEGEND**
- LANDFILL GAS HEADER PIPING
  - LANDFILL GAS LATERAL PIPING
  - - - HORIZONTAL GAS COLLECTOR
  -  VALVE CHAMBER
  -  GRAVITY DRAIN TRAP & WELLHEAD
  -  VERTICAL EXTRACTION WELL
  -  CONDENSATE TRAP CHAMBER



# Closed Cambridge Landfill



Region Gas collection building



Private steel production mill

