

MLPP Surface Impoundments

(Metal Cleaning Waste Impoundment (MCWI))





MCWI No. 2

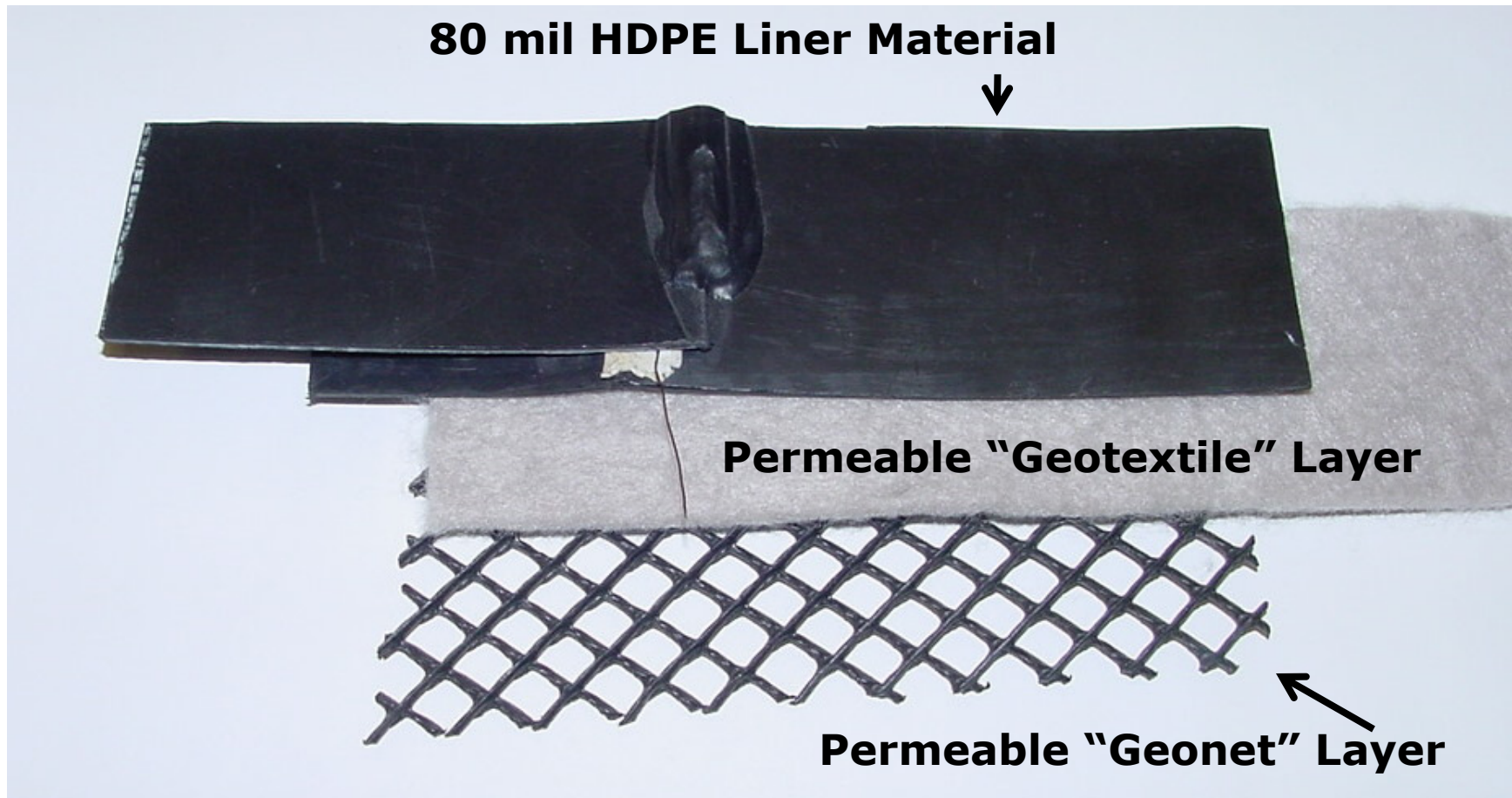
MCWI No. 1

MAR 31 2005

Surface Impoundment Design:

- In 1989, the three Impoundments were retrofitted with the triple liner system and Leachate Collection, Detection and Removal System (LCDRS). The liner system was installed on top of the existing reinforced concrete liner. The liner system consists of the following, listed from top to bottom:
- **Primary System:**
 - 80 mil HDPE liner
 - Permeable geotextile layer
 - Permeable “Geonet” layer
 - 4 inch diameter collection pipe and standpipe (LCDRS)
- **Secondary System:**
 - 80 mil HDPE liner
 - Permeable “Geonet” layer
 - 4 inch diameter collection pipe and standpipe (LCDRS)
- **Tertiary System:**
 - 80 mil HDPE liner
 - Permeable “Geonet” layer
 - 4 inch diameter collection pipe and standpipe (GWCDRS)
 - Permeable “Geonet” layer

The Liner System



MCWI No. 1

**Primary
Liner
LDCRS**

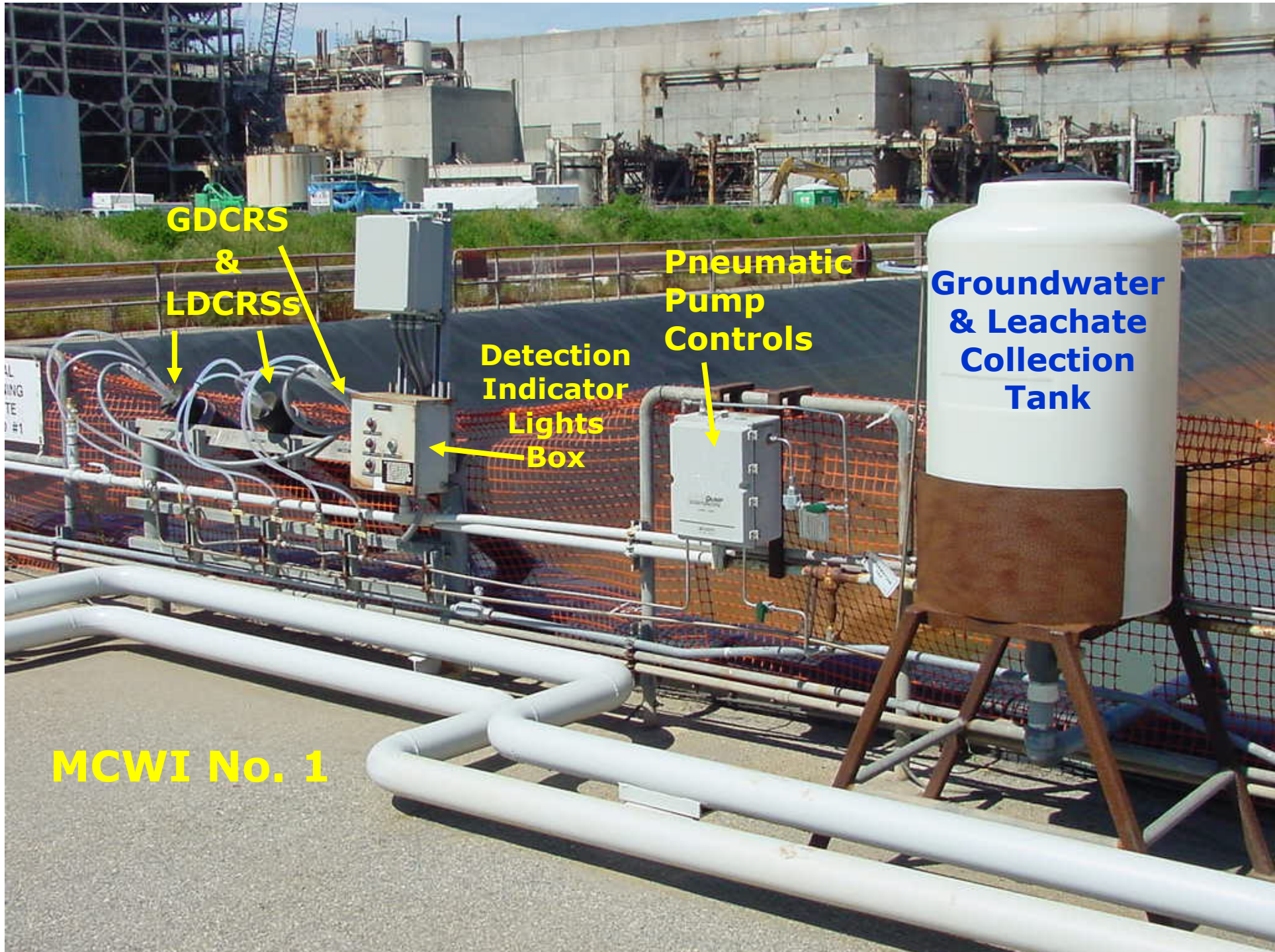
**Secondary
Liner
LDCRS**

**Tertiary
Liner
GDCRS**





Detection Probes and Pumps removed from 2 standpipes for testing.



**GDCRS
&
LDCRSs**

**Pneumatic
Pump
Controls**

**Detection
Indicator
Lights
Box**

**Groundwater
& Leachate
Collection
Tank**

MCWI No. 1