

Low Level Radioactive Waste Management and Disposal

September 18, 2014

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Materials Division**

**Texas Commission on Environmental
Quality**

Texas Low level Radioactive Waste Compact

**Federal Low-Level Waste Policy Act
passed by U.S. Congress in 1980,
amended in 1985, authorized states
to form Compacts**

CONTINUED

**Texas and Vermont have
established the Texas Compact**

**Vermont has paid state of
Texas \$25 million for waste
disposal guarantee**

Community Support

TCEQ has worked with WCS to build the trust and support of the Andrews County community

In 2010 Andrews County issued a \$75.0 million general obligation bond to the company to finance construction of the facilities

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**Waste Control Specialists
supports over 160 full-time jobs in
Andrews County and to date has
created \$4.0 million in county
revenue and \$16.0 million in state
revenue**

Waste Control Specialists



Radioactive Waste Disposal Storage and Processing License

**Low-Level and Mixed Low-Level
Radioactive Waste Disposal
License issued – September 2009**

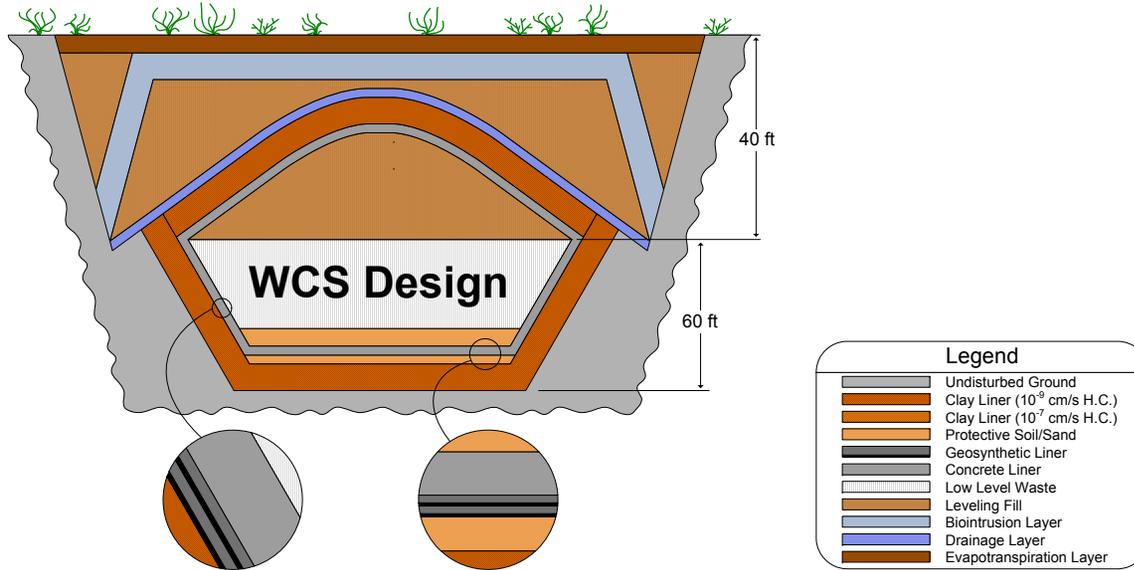
**Compact – First Disposal in April
2012 and Federal – First Disposal in
June 2013**

Financial Assurance

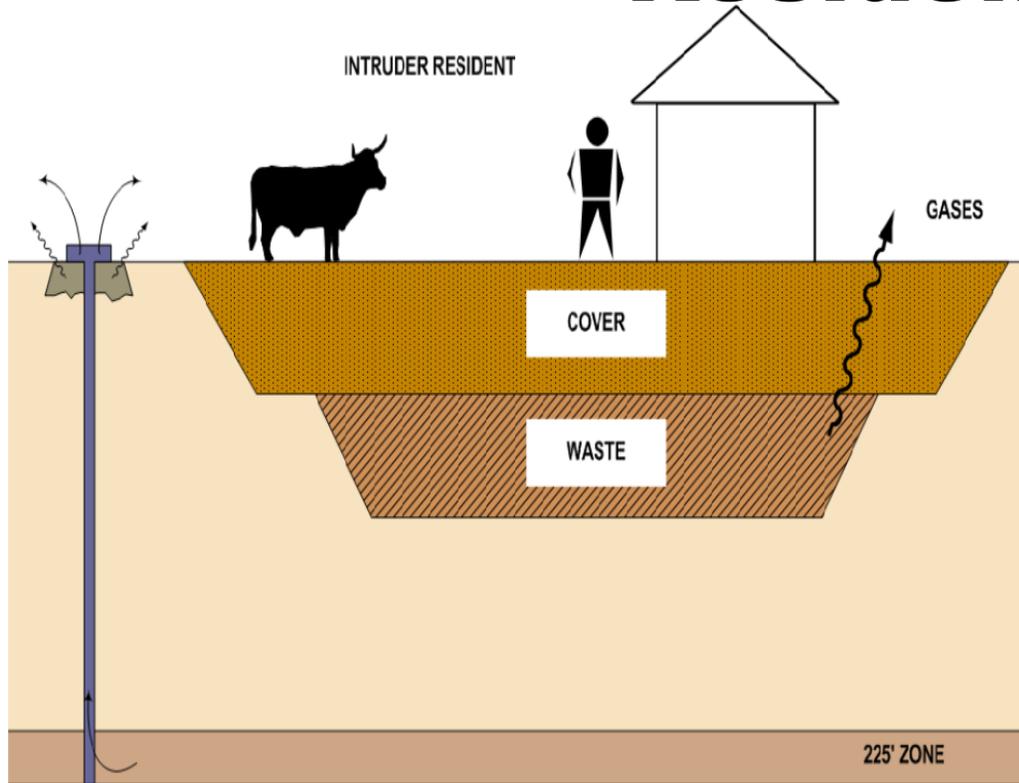
- **Financial Assurance is reviewed annually and adjusted for inflation and current site requirements**
- **Current requirements are:**
 - **Unplanned closure: \$33.30 million**
 - **Post closure: \$9.22 million**
 - **Institutional control: \$22.79 million**
 - **Corrective action: \$20 million**

WCS Landfill Design

WCS Landfill Liner Design



Dose Modeling for Intruder Resident



Peak dose less than 20 mrem/year at 1 million years. Limit is 500 mrem/year.

- **Exposure Pathways:**
 - Gas inhalation
 - Dust inhalation
 - Plant ingestion
 - External irradiation
 - Drinking water evaluated (but not a viable exposure pathway due to limited yield in 225'zone)
- **Intruder Scenarios:**
 - Rancher
 - Oil Well Driller
 - On-site Resident

WCS Services

Disposal

**Low-Level and Mixed Low-Level
radioactive waste and By-Product
Material**

Storage

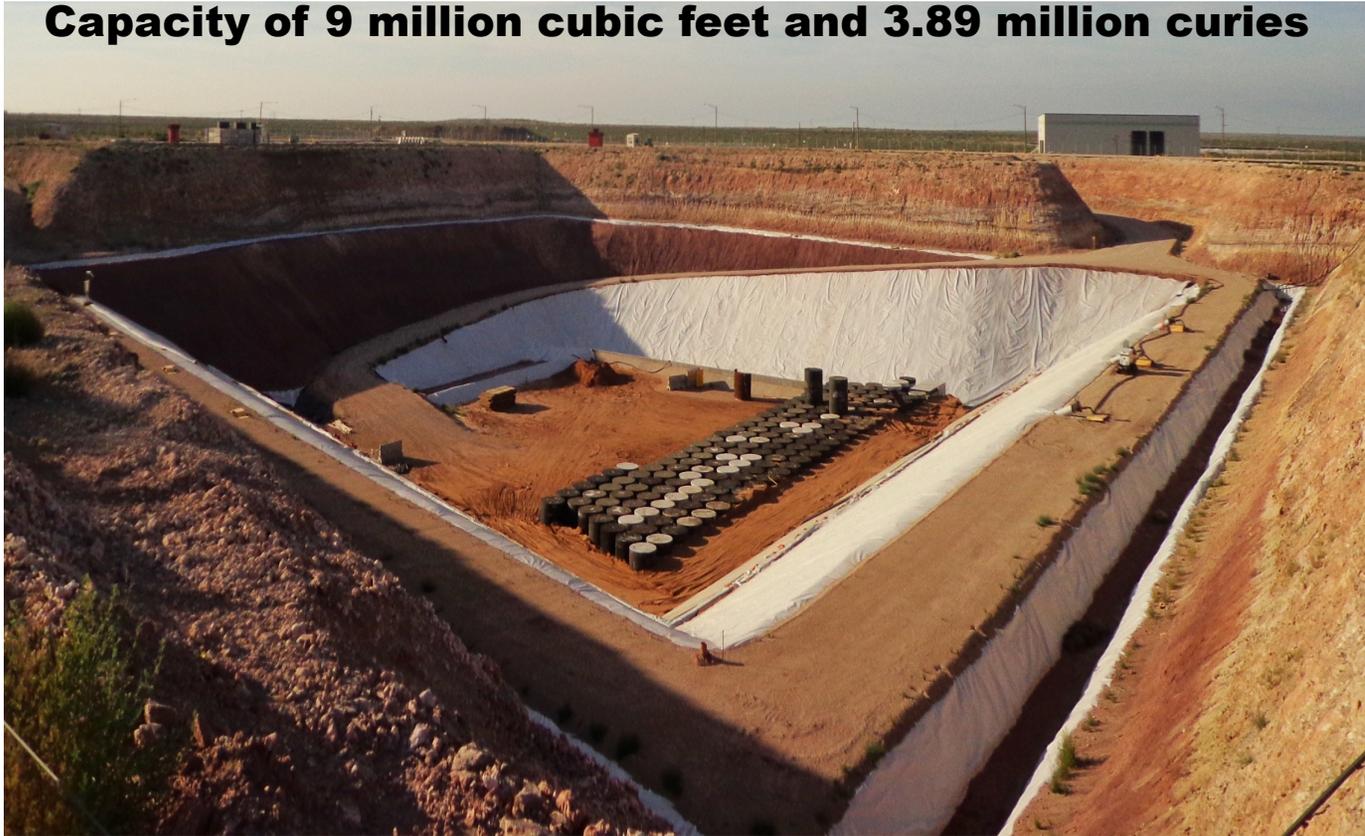
Radioactive waste

Treatment/Processing

Mixed Low-Level radioactive waste

Compact Waste Facility

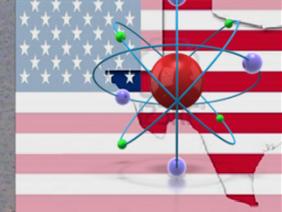
Capacity of 9 million cubic feet and 3.89 million curies



Federal Waste Facility

**Capacity of 26 million cubic feet
and 5.6 million curies**





Thank you for the opportunity to present this information to the Commission.

I look forward to your questions.

