





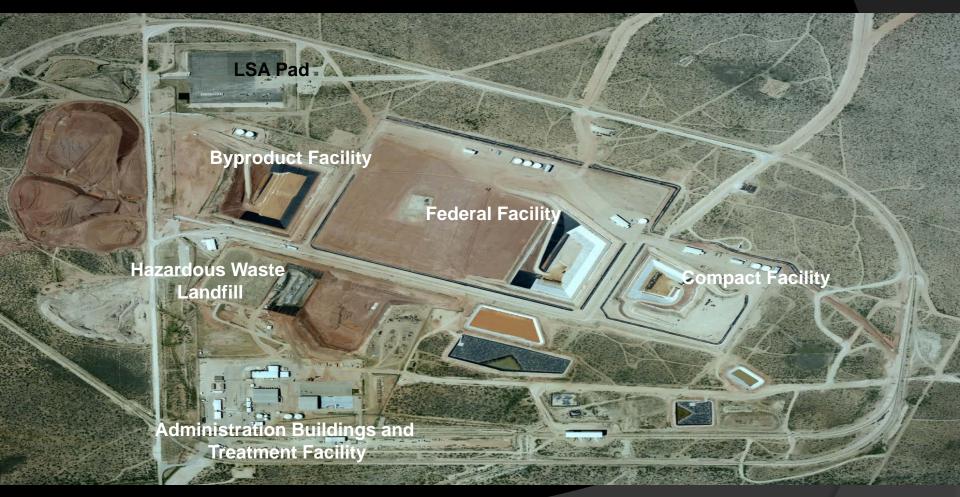
## WCS Safety and Quality Focus

NDREWS, TEXAS

- WCS maintains strong, overarching commitment to safety and quality
- WCS worked over 6.5 years without a lost time accident. Includes over 1.8 million safe work hours.
- WCS promotes a safety culture consistent with the best nuclear utilities and DOE sites:
- Trust-based organization
  - Open communication free from concerns over reprisal
  - All workers have right and obligation to report safety and quality concerns
  - Management practices conservative decision-making





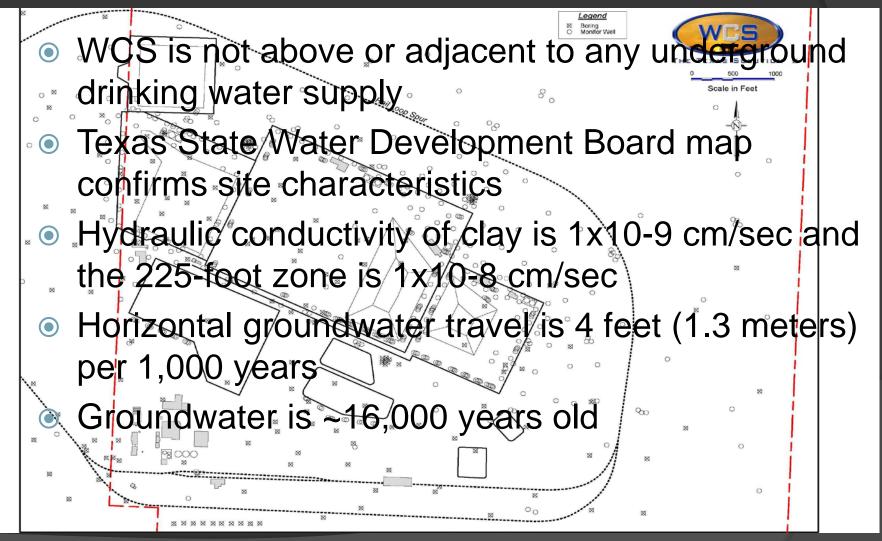


Located in west Texas, the facility offers the safest, most comprehensive LLW/MLLW treatment and disposal options for it's customers.



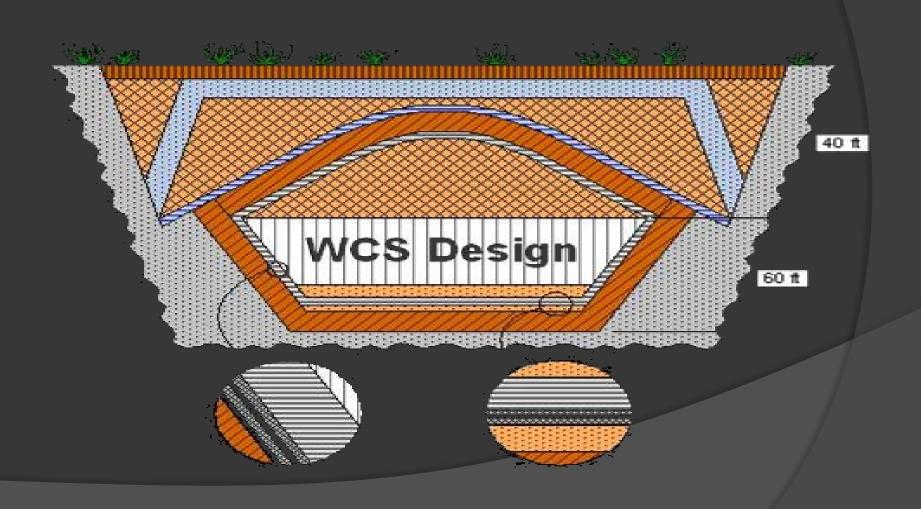
# Site Characteristics

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## LLRW Burial Design





# WCS Services

WCS provides the most comprehensive, full service, and complete Radioactive and Hazardous Waste Services in the Nation.

- Disposal
  - Low-level radioactive waste (LLRW)/Mixed LLRW (MLLRW)
  - RCRA/TSCA Regulated Waste (Hazardous waste)
  - Exempt Waste
  - Byproduct Material
- Storage
  - Radioactive Waste, incl. GTCC LLRW, Transuranic Waste, Sealed Sources, and Byproduct Material
  - RCRA/TSCA Waste
- Treatment/Processing
  - Mixed LLRW (MLLW)
  - RCRA/TSCA Waste
  - Exemption to treat and store Special Nuclear Material (SNM) below certain concentration limits based on criticality – U.S. NRC in November 2001



### WCS Difference

- Class A, B & C Waste Disposal
  - One stop shop for Class A, B and C waste & irradiated hardware.
  - WCS is commissioning three (3) new Type B shipping casks
  - Resin dewatering at our site (no need for pre-shipment dewatering)

#### Safe and Secure

- The WCS disposal facility is the most robust disposal facility ever built
- 100 foot cell depth with multi-layered cell design
- Cell final cover is 25-45 feet thick multi-layered to grade
- MCC placement allows for waste retrievability via GPS technology
- Real Transfer of Ownership
  - Upon receipt, waste ownership is transferred to the State of Texas
  - Waste becomes Texas "compact" waste when importation is approved and WAC-compliant waste is received
  - Financial trust account in place with TCEQ exceeds \$180 mil



WCS Difference

Minimized Liability, Risk and Cost

- Direct disposal eliminates additional processing and shipping risk
- Waste disposed of within 24 hours of receipt
- Less transit time/fewer legs = less risk and reduced cost (cask use)



## **License Changes**

- Performance Assessment Update
  - submitted a major amendment to revise the performance assessment to all LLW near the Class C limits, including depleted uranium. Amendment is expected to be approved by June 2014.
- Landfill Expansion
  - submitted a major amendment to more than double the size of the CWF to 9 million cubic feet to address capacity questions. Amendment is expected to be approved in 2014.
- Exempt Waste
  - received an amendment to allow exemption of LLW similar to NRC 20.2002 process. Submitting procedures to TCEQ regarding sampling and approval process.



### **Compact Waste Facility**

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Direct burial at WCS is the LOWEST RISK option for radioactive waste, title to compact waste is transferred to the State of Texas upon arrival.



## **Federal Waste Facility**

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- FWF Cell is over 100 feet deep 7 ft liner system
- Multi-layered cover system that is 25 45 feet thick
- Final closure will return to original surface
- Depth to waste is at least 25 feet below surface
- Natural red bed clay is less permeable to water than concrete



### Disposal Class C Oversized MLLW in the FWF

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WCS workers place a MLLW Class C oversized component into a custom MCC for final disposal. This disposal method provides the generator and WCS workers with significant ALARA benefits by not having to size reduce the component for final disposal.



### Hazardous Waste Landfill (RCRA Disposal Waste Facility)



WCS is now licensed to dispose of low activity (exempt) waste in our RCRA landfill – Exempt disposal at enhanced levels.



## **MLLW Treatment Facility**

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WCS workers perform stabilized treatment for shredded drum waste and then place the treated waste into flexible packaging for MLLW Class C disposal into FWF.



## WCS Type-B Cask Services

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"Providing maximum benefit and the lowest risk"

Offering TYPE B Cask services for resins and filters. With an internal volume of 160 ft<sup>3</sup> and shielding limit of 500 R/Hr. The drum capacity is 10 (55) gallon with a maximum payload of 15,000 lbs.



# Large Component Capable

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WCS has significant in-house capabilities to manage large component disposal. A worker is shown remotely driving a 60 ton MCC to a staging area.



**Rail Capable** 

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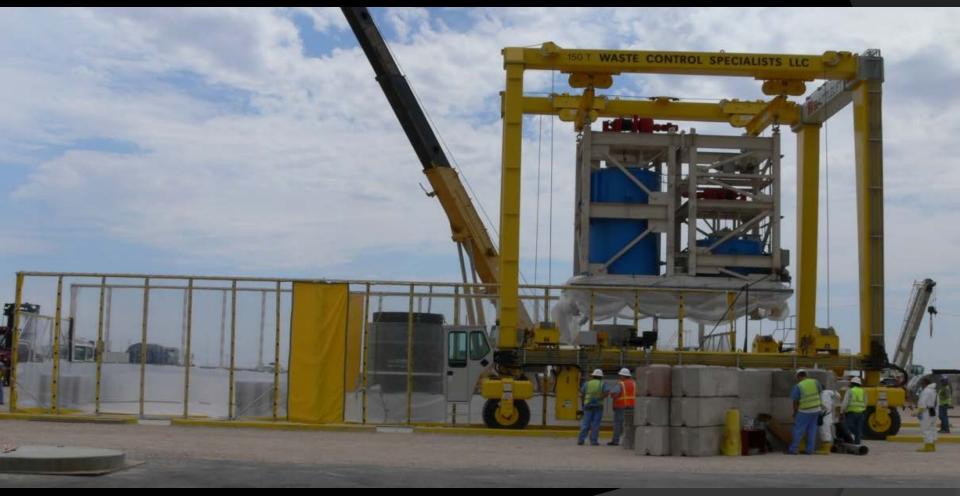


WCS has excellent highway and direct rail access, with a four mile rail loop around our facility we are very well equipped to manage unit train service.



### Irradiated Hardware Transfer System

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Preparing the WCS transfer equipment to receive an irradiated hardware shipment. A typical shipment has a contact dose rates of 10,000 R/hr.



## **Environmental Protection**

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WCS is committed to the safe and secure handling of the state and nation's Low-level Radioactive Waste. WCS provides a safe, secure, long-term solution for waste disposal while fully protecting the environment. WCS' greatest ally in this effort is the geology and site characteristics of our facility.