



**Advantek**  
Waste Management Services

#### LOCATION

7513 S K14 Highway  
Hutchinson, Kansas 67501

#### INJECTED WASTES

- Oilfield Waste
- Non-hazardous industrial waste streams
- Other inert materials derived from various industries

#### VOLUMES

Over 200,000 bbls of of BRM  
emplaced into salt caverns.

#### ENVIRONMENTAL SOLUTION

- Provides a clean landfill diversion option
- No surface liabilities
- No additional treatment or transportation
- Permanent safe disposal
- Greater protection for surface and underground aquifers

# ADVANTEK CAVERN SOLUTIONS

## Beneficial Reuse Material Emplacement Facility Hutchinson, Kansas



## A Cleaner Disposal option: Landfill Diversion through Cavern Stabilization

About our state-of-the-art Kansas Facility

**Top of Salt Cavern SW12:** 528 ft

**Bottom of Salt Cavern SW12:** 781 ft

**Capacity:** 10,000 bbls/day or 420,000 gallons/day

#### Accepted Material:

- Drilling & Completion Material: Muds, Cuttings, Cement
- High Chloride Material from Salt Formation Drilling
- Hydrotest Materials
- Non-hazardous Industrial Solid Waste Streams (particles, flakes, granules, pulp)
- Non-hazardous Industrial Wastewater
- Pipeline Leak/Repair Material/ Pipeline Excavation materials
- Tank Battery Area Clean Up

Our team commercialized the process of Beneficial Reuse Material (BRM) emplacement in the State of Kansas

Our facility provides a solution to backfill, emplace and contain non-hazardous semi-solid and/or solid material into plugged and abandoned underground cavern wells. Emplacement enables any liquid or sludge material to be disposed with the smallest footprint and lowest long-term liability.

The process is monitored daily to provide assurance of a safe operation. Data is transmitted to our headquarters to our specialized team of engineers to verify that process conditions are optimal for a secure and permanent emplacement into the targeted salt formation.



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## FREQUENTLY ASKED QUESTIONS

**Q:** What is BRM?

**A:** BRM stands for Beneficial Reuse Material, which we use for formation stabilization. Essentially, BRM is material that becomes beneficial when it is repurposed.

**Q:** Why evaluate this technology?

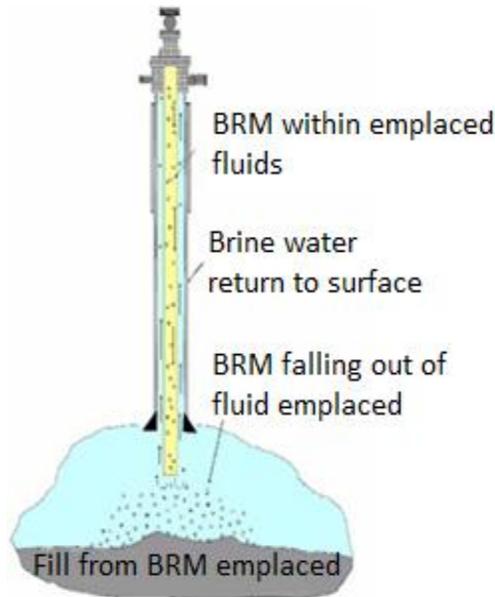
**A:** The status-quo is not enough and is not sustainable.

**Q:** How to start a waste emplacement project?

**A:** Advantek can help you through permitting, design, transportation, operations, and monitoring.

For more information on any of our products or services please visit us on the Web at:  
[www.advantekwms.com](http://www.advantekwms.com)

# Water and Solids Management Through Salt Cavern Emplacement



## THE NEED

A zero landfill alternative in the midwest region for companies to repurpose unique waste streams in an environmentally responsible process.

## THE SOLUTION

Emplacement at Advantek Cavern Solutions manages BRM with significant environmental benefits. This provides the formation with enhanced stabilization. Through appropriate geological salt formation, well design, and advanced monitoring, BRM can be conditioned and emplaced into the salt formations, ensuring permanent containment while benefitting the immediate and surrounding environment.

## THE PROCESS

Sequestering contaminated solids by emplacement into a subsurface salt formation using a slurry material is the most safe, inexpensive, and permanent solution for managing complex materials.

1. Material Emplacement Permit application and approval
2. Material is captured
3. Injection operations follow controlled operational design and risk mitigation procedures
4. Daily monitoring of the operations is required to predict and mitigate any risks

## OUR SUPPORT

Advantek and our principals have been instrumental in inventing and promulgating emplacement technologies across the world over the past 35 years. Our engineers and operational teams have the expertise to design and manage projects from start to finish with best practices acquired over decades. We closely work with regulators to ensure full compliance with state requirements and we help our clients to navigate through regulatory framework to make their projects possible.

## CONTACT US



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Cavern Solutions

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