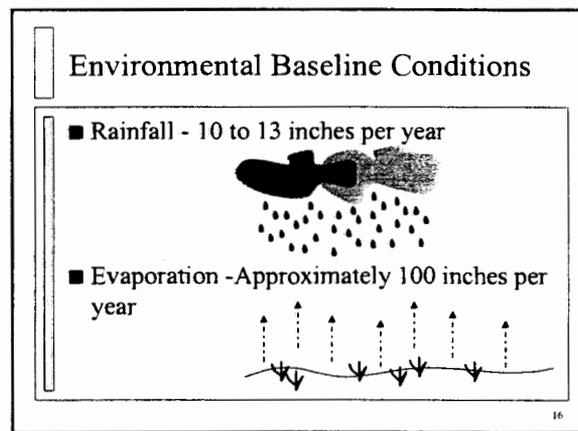
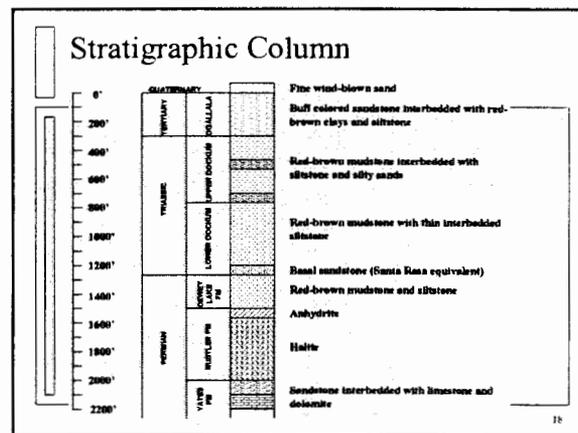


- ### Presentation Outline
- Introduction
 - Project Overview
 - **Site Conditions**
 - Design and Environmental Protection
 - Facility Operations and Monitoring
 - Environmental and Health and Safety
 - Summary



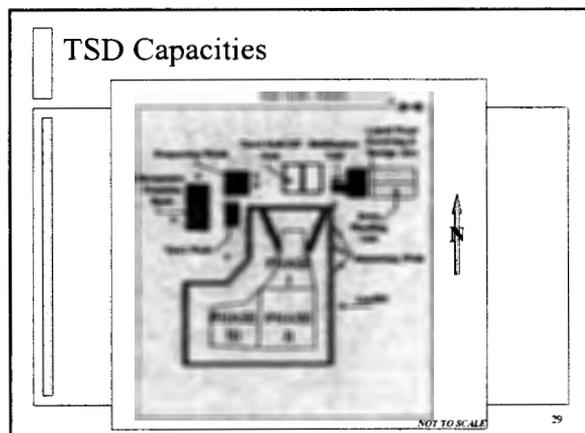
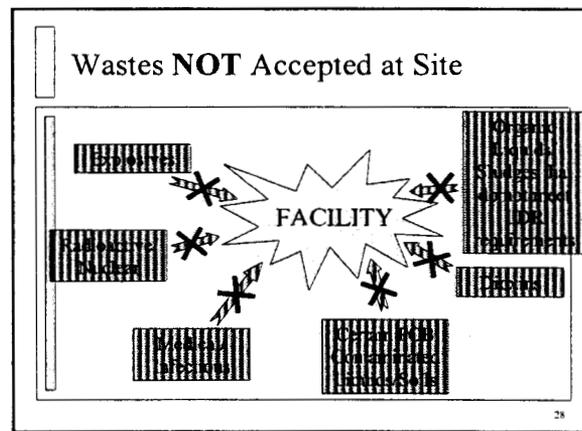
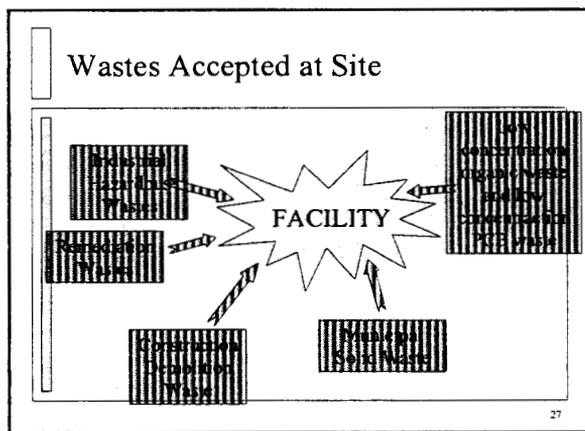
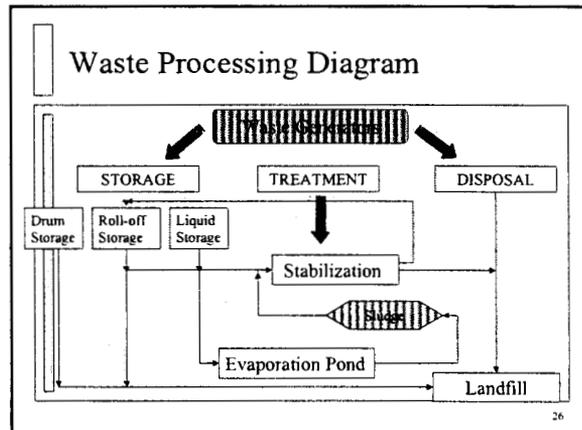
- ### Environmental Baseline Conditions
- Wind direction - Predominately from the SW
 - Temperatures - Above 100°F during day (summer) and below freezing at night (winter). Average = 62°F
 - No flood plains near site boundary
-



Presentation Outline

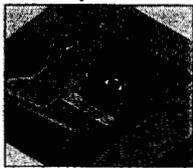
- Introduction
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Permitted Capacity

- Landfill
 - Phase 1A = 553,000 cy capacity
 - Maximum estimated filling rate of 20,000 cy/month
 - Typical filling rate of 5,000 to 10,000 cy/month
 - Phase 1A filling time = 2 to 6 years
 - Maximum of 3 to 5 trucks entering site per hour
 - Average of 1 to 2 trucks entering site per hour



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Permitted Capacity

- Drum Handling Unit - 1120 drums



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Permitted Capacity

- Roll-off Unit - 132 rolloff units



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Permitted Capacity

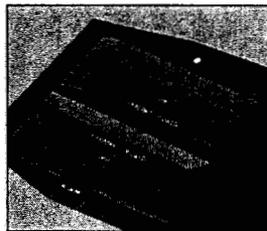
- Liquid Storage - 36,000 gallons in 4 tanks



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Permitted Capacity

- Evaporation ponds - 5.2 million gallons



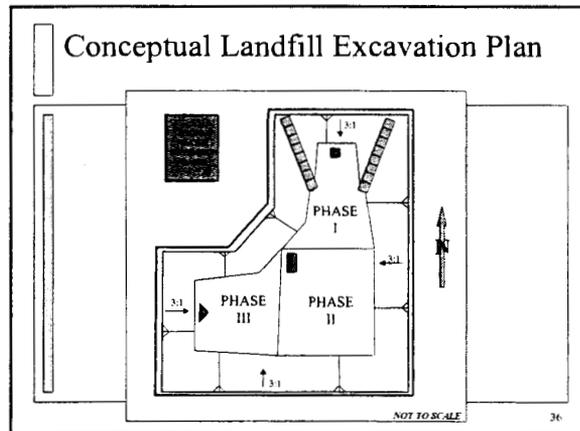
34

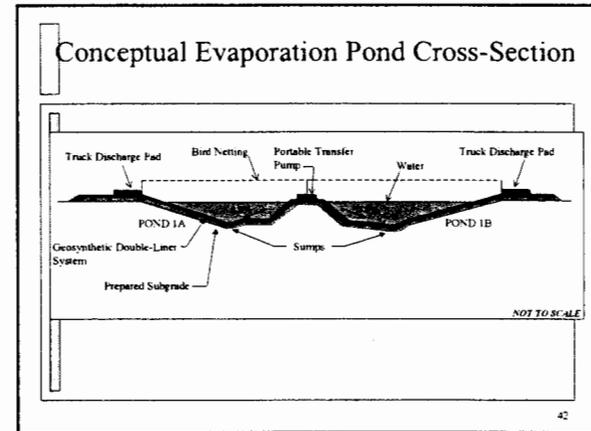
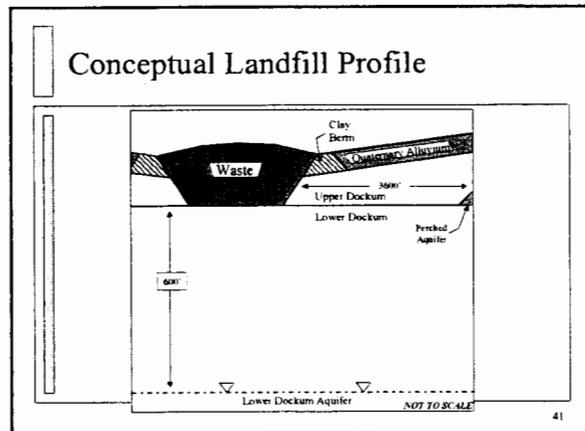
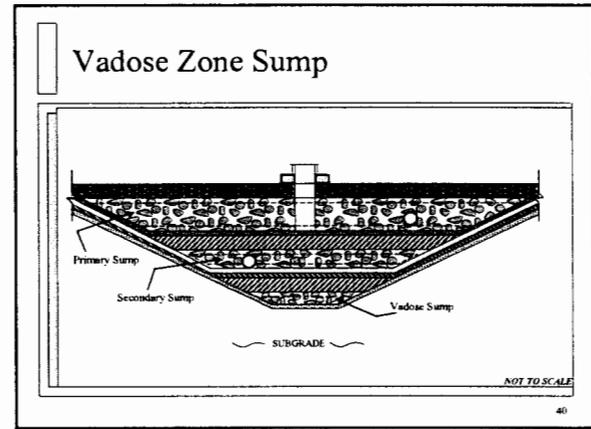
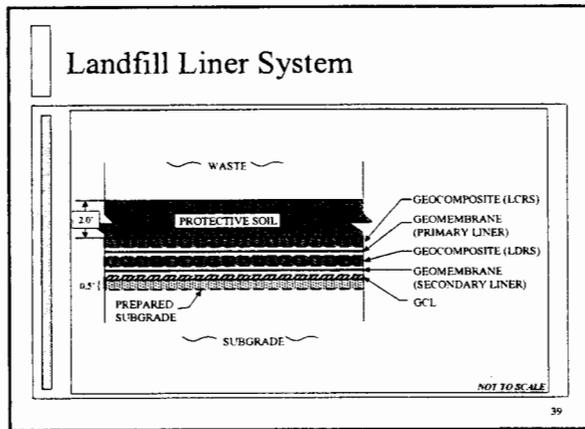
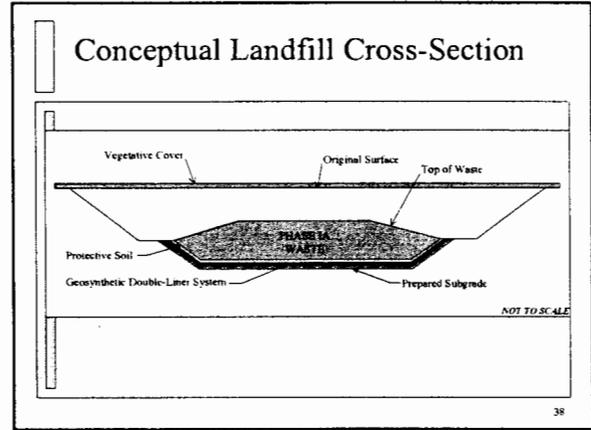
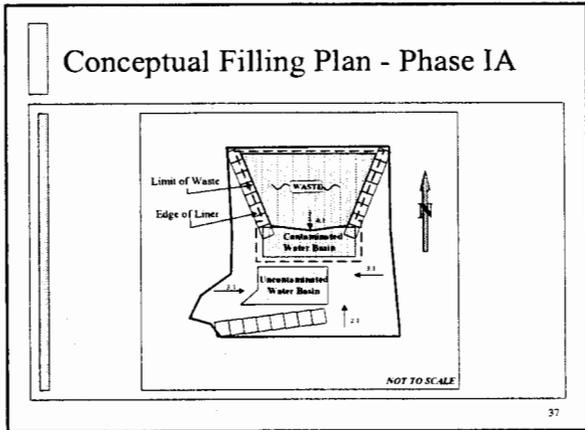
Permitted Capacity

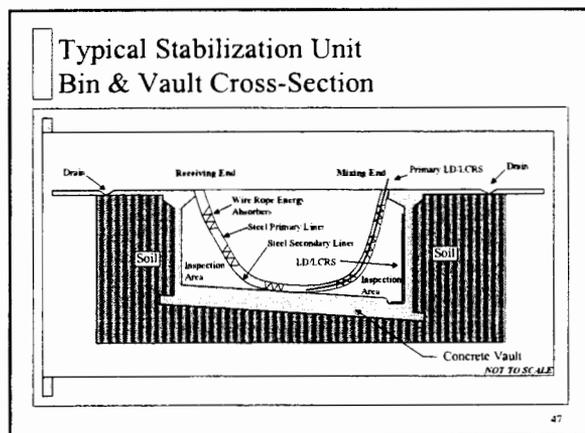
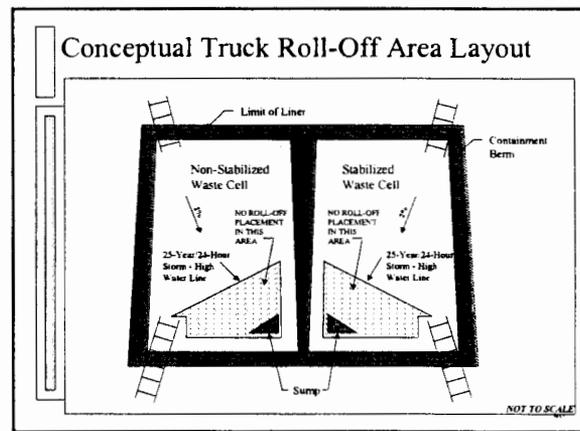
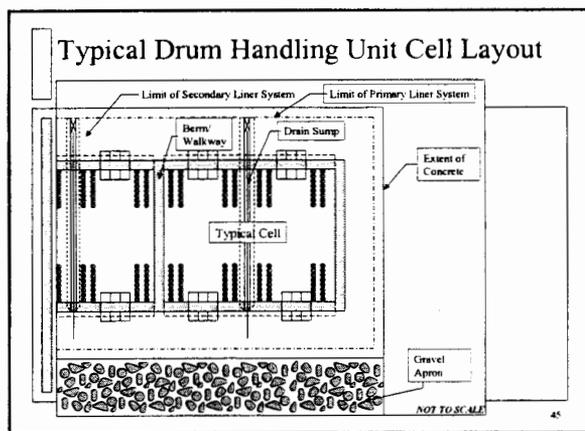
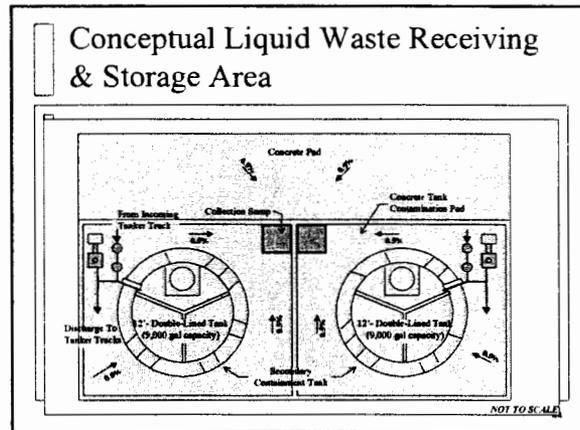
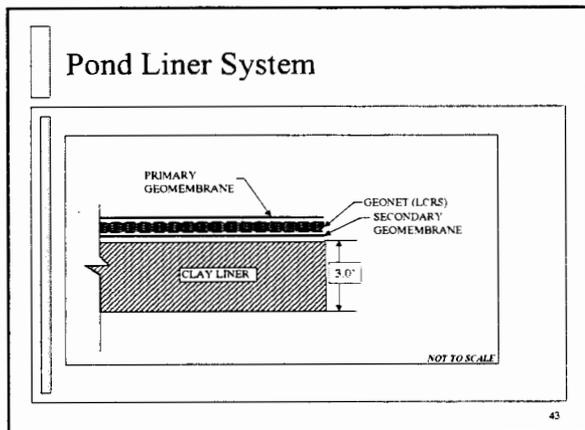
- Stabilization
 - Total of 4 bins
 - 2,500 cf capacity in each bin = 10,000 cf total
 - Maximum processing rate of 15 batches per day



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- ### Waste Containment and Environmental Protection Measures
- All facilities meet or exceed EPA's minimum technology guidance (MTG).
 - All facilities include double liner system.
 - All facilities include leachate collection and a leak detection system.
 - The landfill and evaporation pond include a vadose zone monitoring system.
 - The site includes a perched groundwater monitoring system.
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Presentation Outline

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Facility Staffing

- Full production - 30 to 35 employees
 - Administration
 - Security
 - Receiving
 - Laboratory
 - Environmental
 - Facility operations
 - Maintenance



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Water Requirements

- Wash water
 - Truck Wash
 - Drum Handling Unit
 - Stabilization Unit
 - Liquid Storage Unit
- Dust control
- Fire control
- Water storage tank will be required at site
- Water will be purchased and piped or hauled to site



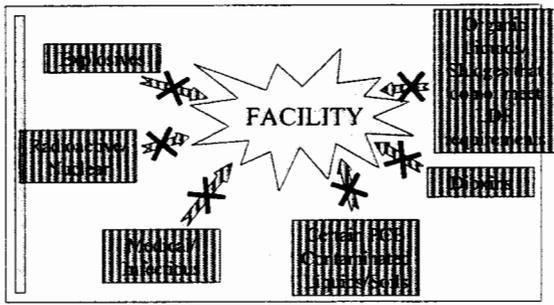
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Waste Sources

- Market strategy
 - Handle waste safely
 - Treat and dispose of wastes generated in New Mexico
 - Consider handling out-of-state wastes

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Wastes NOT Accepted at Site



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Waste Facility Acceptance

- Objectives:
 - Ensure that waste meets permit requirements through multi-step process
 - Ensure that waste can be handled safely
 - Ensure that waste arriving at the site is the same as the waste that was characterized.



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Waste Facility Acceptance

- Procedures:
 - Initial waste characterization by generator
 - Waste receiving:
 - Confirm schedule for waste arrival
 - Inspect shipping papers and manifest
 - Confirm Land Disposal Restrictions (LDR) are met
 - Inspect shipping containers
 - Waste sampling and testing to confirm characterization

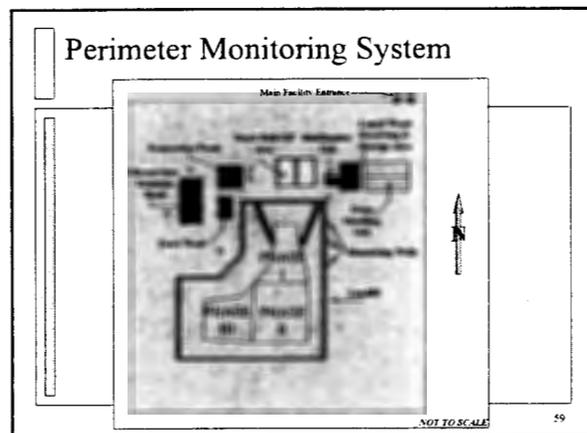
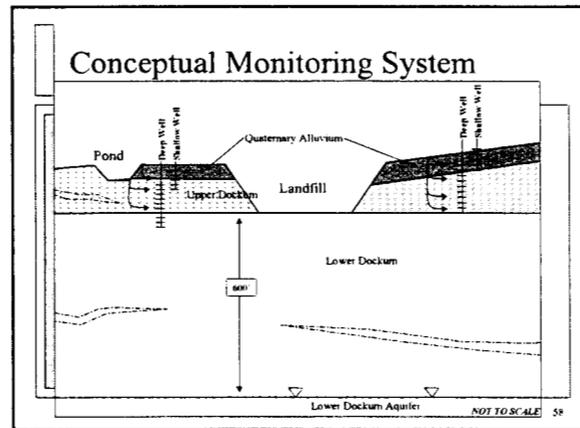
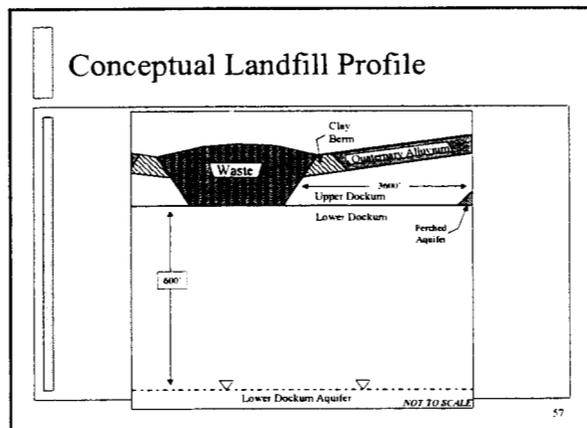


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Groundwater Monitoring Systems

- Monitoring directly beneath each sump area with vadose zone sumps
- Monitoring contact between Upper and Lower Dockum
- Monitoring in Alluvium

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Monitoring and Inspection

- Landfill and Evaporation Pond Monitoring Frequency:

Time Period	Sumps	Vadose Wells
Operation	Daily	Monthly
Closure	Daily	Monthly
Post-Closure	Semi-annually	Semi-annually

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Monitoring and Inspection

- **Air Monitoring Requirements**
 - Landfill - quarterly monitoring for VOC gases emissions
 - Evaporation Pond - Not required based on EPA limits on waste types
 - Other Facilities (containers, tanks, stabilization unit) will require NMED Air Permit



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THREATENED AND ENDANGERED SPECIES

by
Joe Merino

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Protected by Federal Law

- Extends to species that are listed as “threatened” or “endangered” by the United States Fish and Wildlife Service (USFWS)
- State or Agency species that are not listed by the USFWS receive no protection
- State and federal agencies request that “unprotected” species be treated with care

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Species of Concern in Triassic Park Area

- **Lesser Prairie-Chicken**
(*Tympanuchus pallidicinctus*)
 - federal candidate species
- **Sand Dune Lizard**
(*Sceloporus arenicolus*)
 - federal species of concern
- **Ferruginous Hawk**
(*Buteo regalis*)
 - BLM species of concern
- **Tiger Beetle**

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Status of Species on Triassic Park Property

<ul style="list-style-type: none"> ■ Need to initiate “informal consultation” with the USFWS ■ Need to conduct species survey based on species list received from the USFWS 	<ul style="list-style-type: none"> ■ Need to prepare report based on survey results ■ Present species status is “unknown”
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Brief Survey of Triassic Park

- **Habitat mainly sand shinnery and mesquite**
 - Sand shinnery and associated sand dunes can be habitat for:
 - lesser prairie-chicken
 - sand dune lizard
 - tiger beetle
- **Lesser prairie-chicken: not observed**
- **Sand dune lizard: may be present**
- **Ferruginous hawk: present around Triassic Park**

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Potential Mitigation Measures

- **Bird netting**
 - over evaporation ponds, and other open storage facilities such as water storage basins
- **Exclosure fence of metal flashing**
 - around evaporation ponds and other water storage basins
- **Habitat conservation/restoration**
 - consistent with project requirements

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**TRAFFIC ROUTES
AND VOLUMES**
by
Bob Spooner

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Roswell Highway Map

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Detailed Roswell Map

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**ENVIRONMENTAL EXPOSURE
AND ASSESSMENT**
by
Al Westerman and Robert Cudney

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Downwind Concentration - Worst-Case Spills

Distance km	Concentration			
	outdoors		indoors	
	ppm	% TLV	ppm	% TLV
0.5	0.588	5.9%	0.19	1.9%
1	0.15	1.5%	0.0486	0.5%
1.5	0.0663	0.7%	0.0221	0.2%
2	0.0375	0.4%	0.0126	0.1%
3	0.0172	0.2%	0.0058	0.1%
5	0.00648	0.1%	0.0022	0.02%

Downwind Concentration - EPA Evaporation Method

Concentration ppm	Distance km
1	0.7
0.1	3.8
0.01	17.8

Distance to Odor Thresholds

Substance	Threshold ug/m ³	Distance km
Gasoline	3800	0.4
Formaldehyde	2200	0.7
Phenol	500	1.9

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- ### Summary
- The facility will consist of treatment, storage and disposal units.
 - The facility has been located in a very favorable geologic, hydrologic and climatic setting.

- ### Summary
- The individual units at the site have incorporated engineering containment systems that meet or exceed all regulatory requirements and will be protective of human health and the environment.
 - Performance monitoring systems and procedures are incorporated into the facility design to confirm regulatory compliance.