



State of Nevada
Division of Environmental Protection

Bureau of Air Pollution Control

**Public Hearing on the
Operating Permit to Construct
Jungo Land and Investments, Inc.
Jungo Disposal Site**

August 19, 2009



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Division of Environmental Protection

Bureau of Air Pollution Control

Greg Remer

Chief

Bureau of Air Pollution Control

Nevada Division of
Environmental Protection



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Pre-BAPC Review:

- Conditional Use Permit: April, 2007
- County Ordinance Change: October, 2007



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Jonathan McRae

Staff Engineer

Nevada Division of
Environmental Protection



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Bureau of Air Pollution Control Presentation:

1. Site Location
2. Project
3. Air Quality Emissions
4. Air Quality Analysis / Modeling
5. Applicable Air Quality Standards
6. Air Quality Permit
7. Public Comment: Regarding Draft Air Quality Permit



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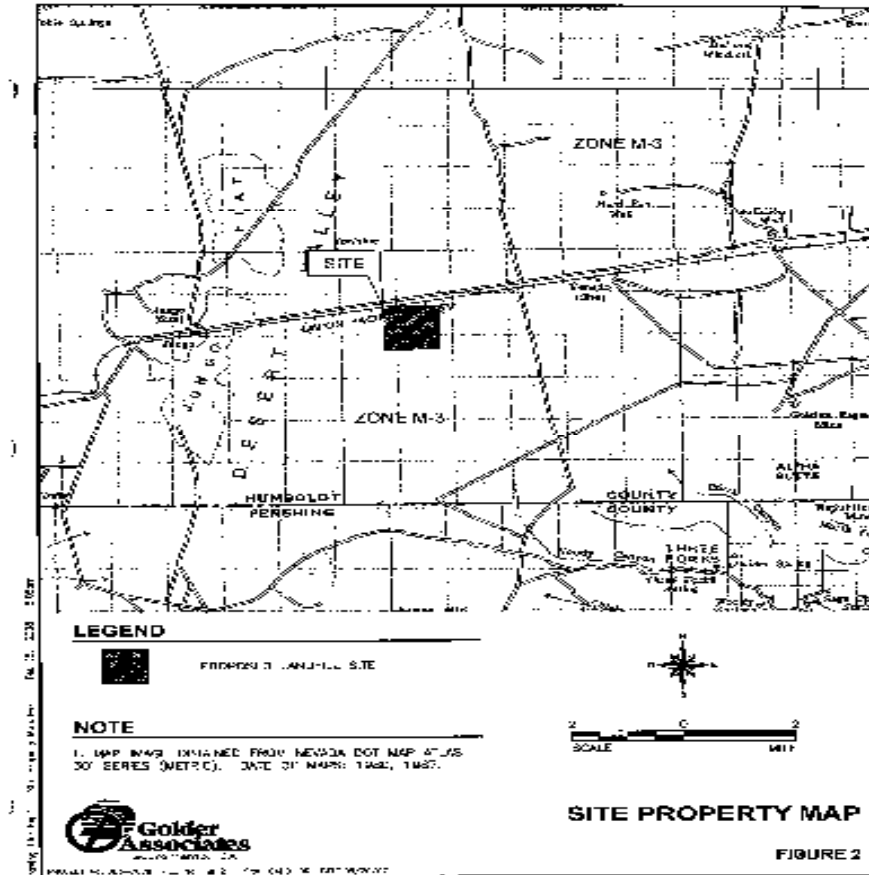
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Site Location



Jungo Location

- Approximately 634 acre Solid Waste Disposal Site
- Location:
 - ❖ Desert Valley
 - Humboldt County
 - ❖ 25 miles West of Winnemucca



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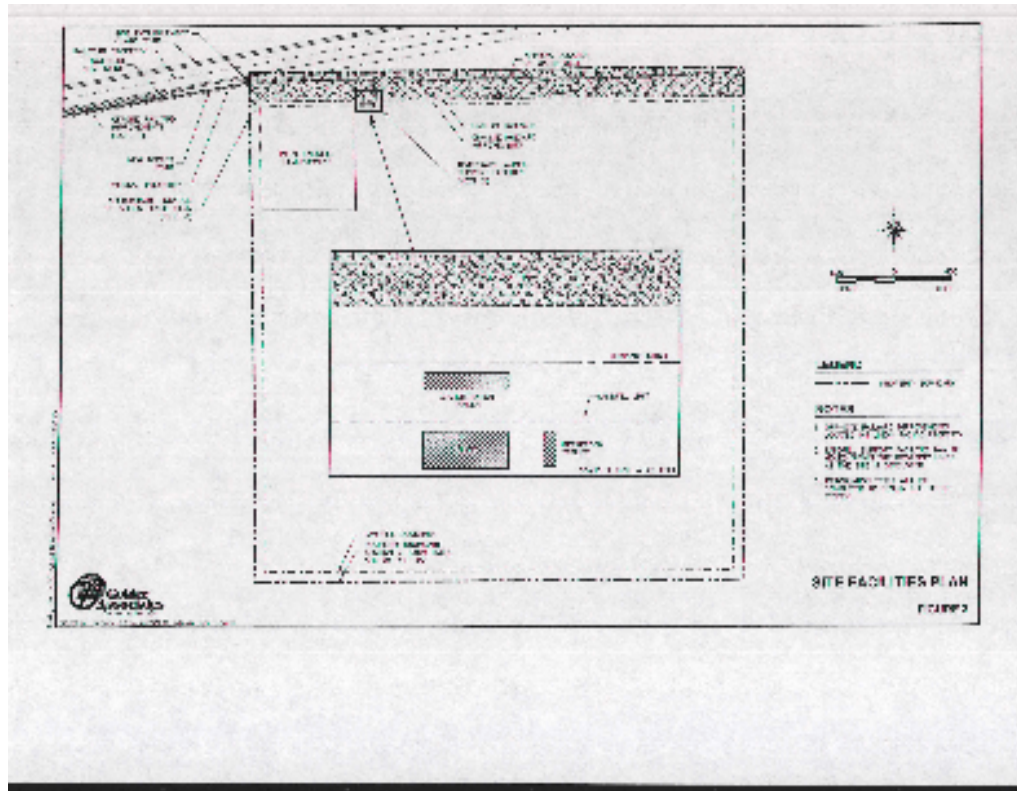
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Project



- Municipal Solid Waste (MSW) disposal site
- 634 acres total surface area
- 560 acres for landfill waste footprint
- Maximum design capacity is 58.5 million tons.
- 12,000 gallon diesel fuel storage tank
- Other miscellaneous non-regulated air sources (non-road vehicles, roads, etc.)



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JLII Air Quality Emission Limits:

TABLE 4.1-1. – Summary of JLII’s Proposed (Facility-wide) Annual Emissions

System(s) / Description(s)	Emission Unit ID	NMOC (ton/yr)	PM-10 (ton/yr)	PM (ton/yr)	NOx (ton/yr)	CO (ton/yr)	SO2 (ton/yr)	VOC (ton/yr)
01 – Municipal Solid Waste Landfill	F0.001	48.44 (43.94 Mg/yr)	----	----	----	----	----	----
Fuel Tank Storage	IA1.001	----	----	----	----	----	----	0.00456
Total Facility-wide Proposed Annual Emissions:	----	48.44	----	----	----	----	----	----



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Air Quality Analysis

- ▶ Ambient Air Quality Analysis. Independently evaluated by the BAPC:
 - (1) U.S. EPA's Landfill Gas Emissions Model (LandGEM) Version 3.02
 - (2) Ambient Air Quality Standards



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Air Quality Evaluation

- ▶ LandGEM: is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfill waste in municipal solid waste (MSW) landfills.
- ▶ Model default are based on empirical data from current U.S. Landfills.



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Review of Air Quality Standards

BAPC reviews State and Federal regulations / requirements for project applicability. All applicable regulations are written into the Air Quality Permit as conditions that must be met.



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New Source Performance Standards

- Subpart W – Standards of Performance for Municipal Solid Waste Landfills
 - Applies to design capacity of ≥ 2.5 million megagrams (Mg).
 - Jungo Landfill design capacity – 53.1 million megagrams (Mg).



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Air Quality Permit

Allows the construction and initial operation of a new facility

Permit includes:

- Air Pollution Controls
- Emission Limits
- Operational Limitations
- Monitoring & Recordkeeping



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CONCLUSIONS

- **Based on information provided and our review, the proposed Jungo Disposal Site will meet all applicable State and Federal Air Quality Standards.**



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Comments

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