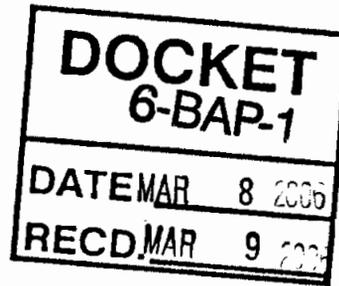




**Genotypes
Inc.**



March 8, 2006 (2 pages)
Bioenergy Interagency Working Group
California Energy Commission
Attn: Docket No. 06-BAP-1
Email: docket@energy.state.ca.us

Re: Bioenergy Action Plan/Pond Ethanol Project

Dear Sirs:

We applaud this Workshop in its efforts to coordinate various state agencies to find solutions for expanding bioenergy in a cost-effective manner.

Our company, Genotypes Inc., is seeking funding to develop a new technology that involves genetically-engineering a single celled organism to make ethanol in ponds. The proposed, patented, organism would use water, trace minerals, carbon dioxide and California's most abundant natural resource, solar energy, to produce ethanol in meter-deep ponds in arid parts of California. While these genetically-engineered organisms do not fit with the traditional concept of "biomass", aquatic plants (such as these) are included in the definition of biomass under Section 303 of the Biomass Research and Development Act.

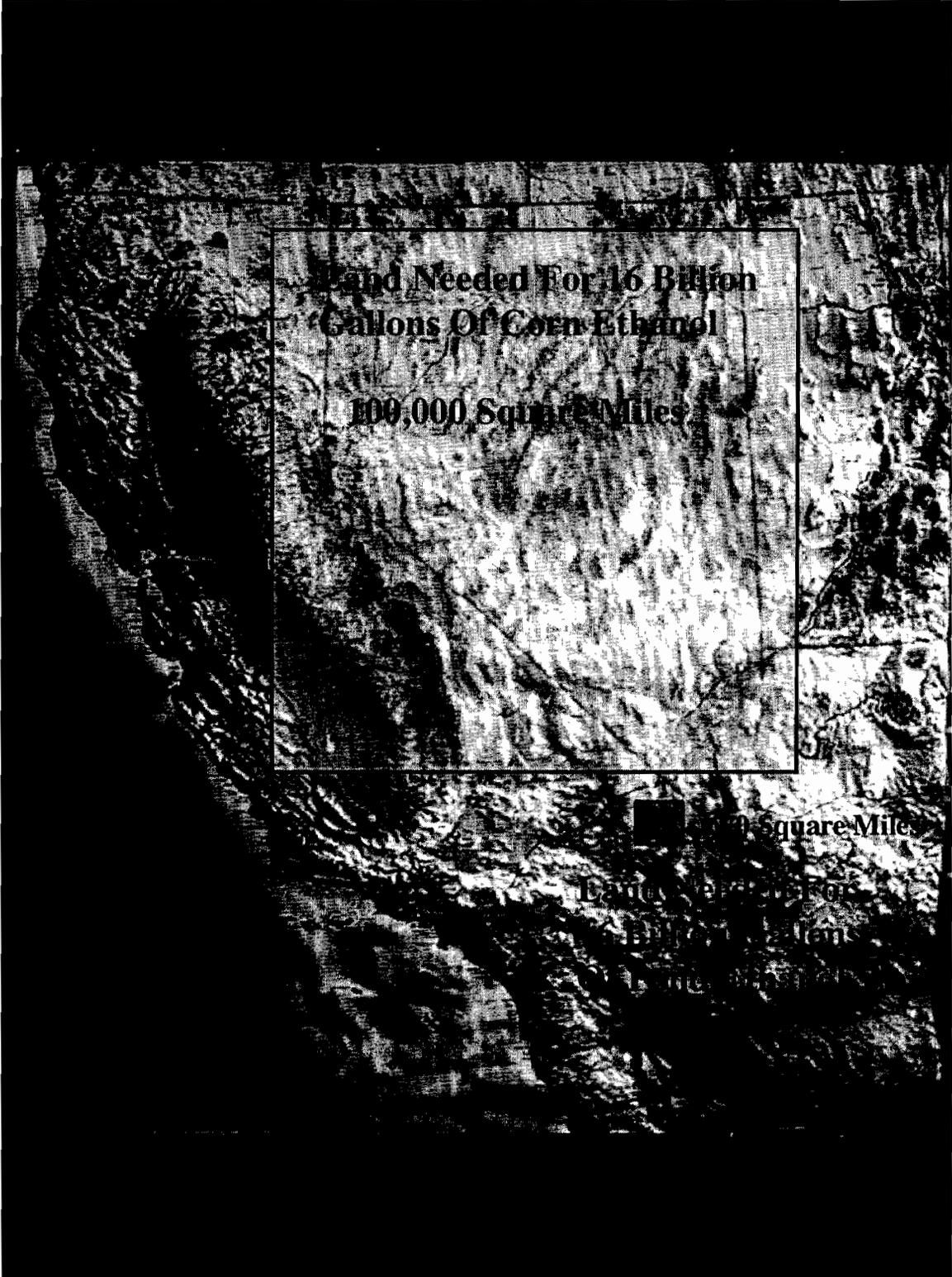
Once the organism is constructed several possible advantages of this project are:

1. **Ethanol is made directly instead of biomass** - after the organism is grown to the appropriate cell density and ethanol production is turned on, ethanol will be produced instead of biomass.
2. **Scaleable** - projections indicate land use would be less than 1% now used to produce ethanol from corn. Eventually enough ethanol could be produced to gradually increase ethanol/gasoline mixtures such as for the 85/15 cars. The goal presented by Navigant Consulting of producing 20% non-petroleum fuels by 2020 and 30% by 2030 could be a vast underestimate if this technology proves viable.
3. **Energy Efficient** - much less energy would be required to produce ethanol by these organisms in ponds compared to traditional biomass which must be grown, collected, transported and processed.
4. **Cost Effective** - \$0.33/gallon based on projections of a scaled-up billion-gallon production facility (42 sq. mile pond area). \$0.81/gallon based on projection of a scaled-up 5.8 million-gallon production facility (2.4 sq. mile pond area).
5. **Pond Ethanol Farmers** - would create new jobs for rural arid parts of California, "Pond Ethanol Farmers".

The following page illustrates a projection of the amount of light collecting pond area needed to produce pond ethanol vs. corn ethanol to supply the entire state of California with enough ethanol to completely replace gasoline consumption.

We hope the state of California will provide research and development funding so that projects such as this one could become a reality and help solve our energy problems.

Sincerely,
Joy Hitzeman, Vice President
Ronald Hitzeman, President
Genotypes, Inc.
Email: genotypes@comcast.net



Genetically-Engineering an Organism to Make Pond Ethanol
Genotypes, Inc.