

**ANALYSIS OF THE ENVIRONMENTAL IMPACT OF THE INJECTION OF
TREATED MUNICIPAL WASTE WATERS INTO A PORTION OF THE GEYSERS
GEOTHERMAL FIELD, CALIFORNIA, USA**

**Pham, M., Klein, C.W., Greensfelder, R.W., Koenig, J.B., and Sanyal, S.K.
GeothermEx, Inc., 5221 Central Avenue, Suite 201, Richmond, CA 94804-5829 USA**

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ABSTRACT

Pressure decline within The Geysers geothermal reservoir has resulted in decreased power output from existing power plants. As a means of partially arresting these pressure declines, several field operators and the County of Lake propose to add approximately 13,000 lpm of treated municipal wastewater from several small communities into 6 injection wells in the southeastern corner of the field. Water will be carried to the geothermal field via a 50- or 60-cm diameter pipeline from the vicinity of Clear Lake, a distance of about 45 km. The results of this study suggest that the proposed injection of effluent could help reducing the high rate of pressure and production rate declines without inducing significant geochemistry incompatibility or microseismicity.

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