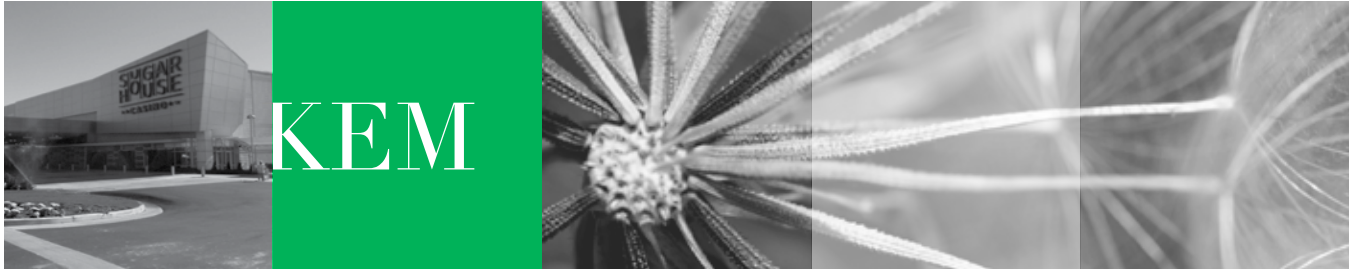


# SUGARHOUSE CASINO

## Brownfield Redevelopment



**KEATING  
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MANAGEMENT, INC.**

*Environmental,  
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The Sugarhouse Casino is a large Brownfield redevelopment of a vacant parcel on the Delaware River waterfront, a portion of which was previously occupied by the National Sugar Refining Company.

### **Client**

SugarHouse HSP Gaming, L.P.

### **Project Location**

Philadelphia, PA

### **Elements of the Projects**

- Subsurface Investigation
- Remediation
- Land Recycling
- Groundwater Modeling
- Tidal Study
- Waste Characterization, Transportation and Disposal
- Regulatory Compliance

### **Keating Environmental Management, Inc. (KEM)**

initially completed a Phase I Environmental Site Assessment of the site on behalf of SugarHouse HSP Gaming, L.P. That assessment concluded that due to the historic industrial use of the site and the filling of the riverbank, the potential existed that subsurface soil and groundwater were impacted. KEM subsequently completed additional evaluations at the site.



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### **The services provided by KEM for SugarHouse included:**

- Conducting a comprehensive test pit investigation across the site to characterize subsurface conditions.
- Installing a shallow monitoring well network to facilitate groundwater monitoring and sampling.
- Performing an aquifer test to assess hydrogeologic parameters.
- Conducting a tidal study to evaluate the affects of bi-directional groundwater flow on the spatial distribution of the contaminants.
- Remediation of two areas of highly weathered #5 fuel oil. Approximately 20,000 gallons of oil and water were extracted and recycled.
- Addressed PADEP's concerns that the weathered fuel oil was impacting the Delaware River by installing additional monitoring wells and by sampling groundwater seeps that discharge into the river at low tide.
- To accelerate the Land Recycling process, we prepared and submitted a combined Remedial Investigation Report and a Cleanup Plan.

KEM has characterized the entire 22-acre property. The impacts to soil, sediment, and groundwater are being managed under the Pennsylvania Department of Environmental Protection Land Recycling Program.

**KEM provided technical and managerial interface with the PADEP.**

**The Site is now the home of the SugarHouse Casino, one of the most prestigious casinos in Pennsylvania.**



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