

# Surface Impoundment and Stormwater Compliance

Biomass Power Generation Facility, California



*groundwater monitoring  
class II surface impoundment monitoring  
stormwater sampling and reporting  
regulatory compliance*

Terraphase has been providing environmental services to a biomass power generation facility since 2010. The facility uses rice hulls as fuel.

Waste water generated at the facility is temporarily stored in two Title 27 compliant Class II surface impoundments for solar evaporation. Terraphase assists the facility with maintaining compliance with the Regional Water Quality Control Board's Waste Discharge Requirements (WDR) Order, which regulates the surface impoundments.

Terraphase implements a Title 27 compliant groundwater monitoring network, in accordance with the WDR Order. Monitoring also includes assessment of the leachate collection and recovery system, as well as the underdrain monitoring system. Terraphase evaluates free-board measurements and groundwater elevation under the ponds to confirm compliance with the WDR Order. Semiannual reports are prepared for review by the RWQCB.

Terraphase also assists the facility in maintaining compliance with California's Industrial General Permit requirements associated with stormwater discharges. Stormwater support services include preparation and implementation of the Site-specific Stormwater Pollution Prevention Plan (SWPPP). Terraphase prepares and submits annual reports in California's Storm Water Multiple Application and Report Tracking System (SMARTS).

Terraphase also provides regulatory compliance support regarding documents such as the Spill Prevention Control and Countermeasure Plan and the Hazardous Materials Business Plan.