

## ENERGY & INDUSTRIAL SERVICES

### Dewatering and Materials Processing

Surface impoundments and storage tanks that are full of sludge can limit the effectiveness of your wastewater treatment systems. Clean Harbors offers Dewatering and Materials Processing services to improve the efficiency of wastewater treatment systems, while substantially reducing your costs for transportation and disposal of tank or surface impoundment waste.

Waste minimization technologies employed by Clean Harbors, including centrifuges and filter presses, can be mobilized to your job site to process tank and surface impoundment waste. Clean Harbors Dewatering and Materials Processing Services offer –

#### Treatability Labs

Clean Harbors' treatability labs in Houston, Texas, and Edmonton, Alberta, receive representative samples of tank and surface impoundment waste and perform bench scale treatability studies to determine the most cost-effective chemistry and dewatering technology to manage your waste. Our labs provide you information on key waste characteristics that are integral to the preparation of a comprehensive proposal and successful execution of the job.

#### Variety of Waste Minimization Technologies

Clean Harbors owns and operates a variety of waste minimization technologies including centrifuges, recessed chambers and belt filter presses. This equipment allows us to select the most appropriate and cost-effective technology based upon the waste to be processed.

#### Potential for Resource Recovery

Through the use of our centrifuges, we are able to remove and recover many organic compounds that may be entrained in the waste. These organics are separated from the waste stream and collected for return to our customer. In addition, these units dewater the processed waste, which dramatically reduces the amount of material to be disposed of.

#### Air Emission Sensitivity

Clean Harbors is keenly aware of the need to provide processing services that meet local, state, and federal guidelines for air emissions.



### The Safer, Simpler, Smarter approach to Dewatering and Materials Processing

- Address all of your dewatering and materials processing needs with a single, trusted provider
- Receive thorough treatability studies prior to project implementation
- Maximize materials recovery and lower transportation and disposal costs
- Remain in full compliance with the most stringent regulatory requirements.



Our technical team is qualified to design and present vapor control plans which meet these guidelines. We offer robotic manway cannon technology for tank cleaning and vapor recovery units to control air emissions.

#### Turnkey Service

Clean Harbors leverages its significant transportation and disposal assets to provide a true turnkey service to our customers. This ability allows us to maintain true accountability and continuity when managing your important waste management projects.

