Waste Handling and Transport

Challenge

Waste handling and transport brings a unique set of economic, environmental, and safety considerations to each project. Remote land operations in areas with limited waste management infrastructure often require trucking services to transport waste long distances for final disposal. Offshore projects with high-volume operations are limited by rig-based storage and boat holding capacities. Weather conditions play a large role in when ships can safely transport waste from the rig to onshore treatment facilities, and can adversely impact operations. Additionally, the transfer of waste from shakers to containers and containers to transport vessels can encompass multiple crane lifts, which can increase safety and environmental incident risks.

Overview

Safely handling and transporting drilling waste requires a close look at many operational aspects. Halliburton Baroid carefully plans every solution according to local conditions to ensure sustainability, maximize drilling efficiency, and meet or exceed safety and environmental regulations. Our breadth of services enables us to offer multiple options, from cost-efficient screw conveyance and traditional skip & ship/skip & truck transportation methods to the latest pneumatic transfer and bulk handling technologies. We can engineer integrated waste handling and transport solutions to help you reduce risk and improve efficiencies.

Baroid Solution/Service	Capability
Augers	Reliable and cost-efficient mechanical cuttings handling options
Skip & Ship/ Skip & Truck	Variable capacity skip options with modular and stackable containers for onshore and offshore cuttings transport
Pneumatic Transfer	Fully pneumatic BaraStream™ vacuum and blower systems for reduced HSE risk, reduced NPT, and improved cuttings handling efficiency in onshore and offshore applications
Bulk Handling	High capacity, pneumatic BaraStream™ HCB tanks and BaraStream™ CTT units for increased waste transportation efficiency, reduced HSE risk, and reduced weather dependence in offshore operations

Augers

Augers and screw conveyance are the most common form of rig-based cuttings handling. With straightforward installation underneath the shakers and reliable mechanical operation, augers are cost-effective and proven options to transfer cuttings into containers for transport. We can help design the most efficient auger system for your rig, with added safety and maintenance features such as Immediate Stop Brakes and quick-release couplings to help reduce HSE risk and improve cleaning or repair times.

Skip & Ship/Skip & Truck

Skip & Ship or Skip & Truck services are essential to many waste handling and transport strategies. In locations with zero discharge requirements, limited waste management infrastructure, or long distances between the rig site and waste treatment facilities, Skip & Ship or Skip & Truck remain the primary transportation methods for drilling waste. We offer a full line of skip & ship and skip & truck services with modular and stackable skip designs and variable holding capacities to help you safely transport waste to final treatment destinations.

Pneumatic Transfer

Vacuums and blowers can bring new efficiencies to waste handling systems. Our line of pneumatic transfer technologies can be configured as either vacuums or blowers to transfer cuttings from shakers to cuttings boxes or bulk handling tanks, and also from bulk tanks to ship-based containers without the need for crane lifts. The intrinsically-safe designs allow flexible placement on the rig, even in hazardous zones, and the pneumatic operation limits personnel exposure to rotating equipment. We have carefully developed our BaraStream™ pneumatic transfer systems to help simplify waste handling and reduce HSE risk on nearly any rig.

- **BaraStream™ SV400 SupaVac** – for safe and efficient pneumatic handling of cuttings in high capacity operations with 31-63 bbl/hr handling capacity

Bulk Handling

Traditional waste transportation options are often capacity-constrained and heavily dependent on weather conditions. Our unique BaraStream™ Honeycomb Base (HCB) Tanks and Cuttings Transport Tanks (CTT) can be combined with the BaraStream™ SV400 SupaVac for a fully-integrated, pneumatic cuttings transport system. Small footprints and flexible installations allow multiple HCB tanks to be placed on the rig, while the SV400 SupaVac can transfer cuttings to the HCB tanks, and then discharge from the HCB tanks to CTT units installed on a transport ship, all without crane lifts. Our integrated solutions can help increase handling and buffer capacities while reducing HSE and weather risks.

- **BaraStream™ HCB Tanks** – for increased handling capacity and reduced HSE risk in high ROP/high-volume operations with pneumatic feed/discharge and 11 m^3 handling capacity per tank
- **BaraStream™ CTT Units** – for reduced HSE and weather risks with increased buffer capacity and 15 m^3 holding capacity per tank

Benefits

Baroid offers a full line of waste handling and transport options, customized for the needs of each well. We can streamline your waste handling logistics and implement new technologies to help increase efficiencies. Our approach to executing integrated solutions can help you maximize handling and transport efficiencies, minimize HSE risk, and reduce costs.

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