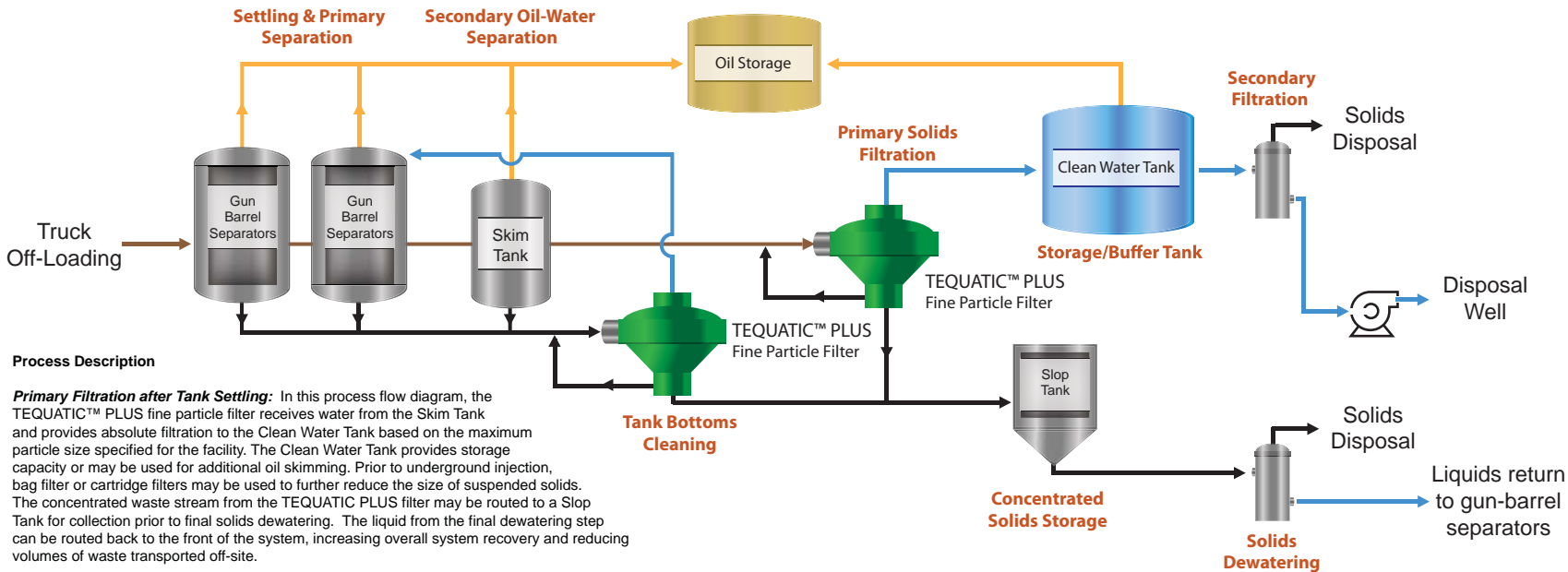


# Process Flow Diagram for Produced Water Disposal

## The TEQUATIC™ PLUS Fine Particle Filter



### Process Description

**Primary Filtration after Tank Settling:** In this process flow diagram, the TEQUATIC™ PLUS fine particle filter receives water from the Skim Tank and provides absolute filtration to the Clean Water Tank based on the maximum particle size specified for the facility. The Clean Water Tank provides storage capacity or may be used for additional oil skimming. Prior to underground injection, bag filter or cartridge filters may be used to further reduce the size of suspended solids. The concentrated waste stream from the TEQUATIC PLUS filter may be routed to a Slop Tank for collection prior to final solids dewatering. The liquid from the final dewatering step can be routed back to the front of the system, increasing overall system recovery and reducing volumes of waste transported off-site.

**Tank Bottoms Cleaning:** To further increase system efficiency, the debris that settles at the bottom of the Gun Barrel Tank and Skim Tank can be sent directly through the TEQUATIC PLUS filter, reducing the frequency of manual tank cleanouts. The clean filtrate would be sent back into the same tank and the concentrated waste stream would be routed to the Slop Tank for further dewatering. This process reduces the operating and maintenance costs, and downtime associated with tank bottoms cleaning.