H₂O Floc™ – A POWERFUL, GREEN SEPARATION SOLUTION
A Proven Separation Solution for Reuse, Salt Water Disposal (SWD) and Discharge of Produced and Flowback Water

REUSE OR DISCHARGE
H₂O Floc™ removes oil and solids from the most challenging produced and flowback water.

Attaches to even the smallest particles of oil and constituents in water.

FAST ACTING TO REDUCE SYSTEM SIZE
Extremely rapid reaction reduces retention time and system size requirements.

Can be used in existing system or coupled with Monarch Separators’ robust separation systems.

REDUCE ENVIRONMENTAL IMPACT

- Helps Meet Stringent Regulations
- Enables Reuse and Recycle
- Safe for Surface Discharge
- Achieves <2 ppm oil in water

Monarch Separators’ signature H₂O Floc™ creates super durable flocs, even in the presence of strong shear forces.
HOW IT WORKS

Alginate, derived from seaweed, draws organic material and particulates together and enables efficient separation from water. Flocculation occurs via cross-linking rather than charge balance; therefore, a robust floc grows rapidly even in the presence of strong shear forces.

TESTING RESULTS

Testing performed onsite found that our H₂O Floc™, comprised of alginate chemistry, successfully treated varying frac fluid, flowback, early production water and produced water:

- Treated 300-650 NTU turbidity to less than 1 NTU
- Treated iron from 35 mg/L to less than 1 mg/L
- Treated Oil in Water to less than 2 mg/L
- H₂O Floc™ dosing of 5 mg/L for produced water
- When coupled with filtration, water passed Whole Effluent Toxicity (WET) tests for surface discharge