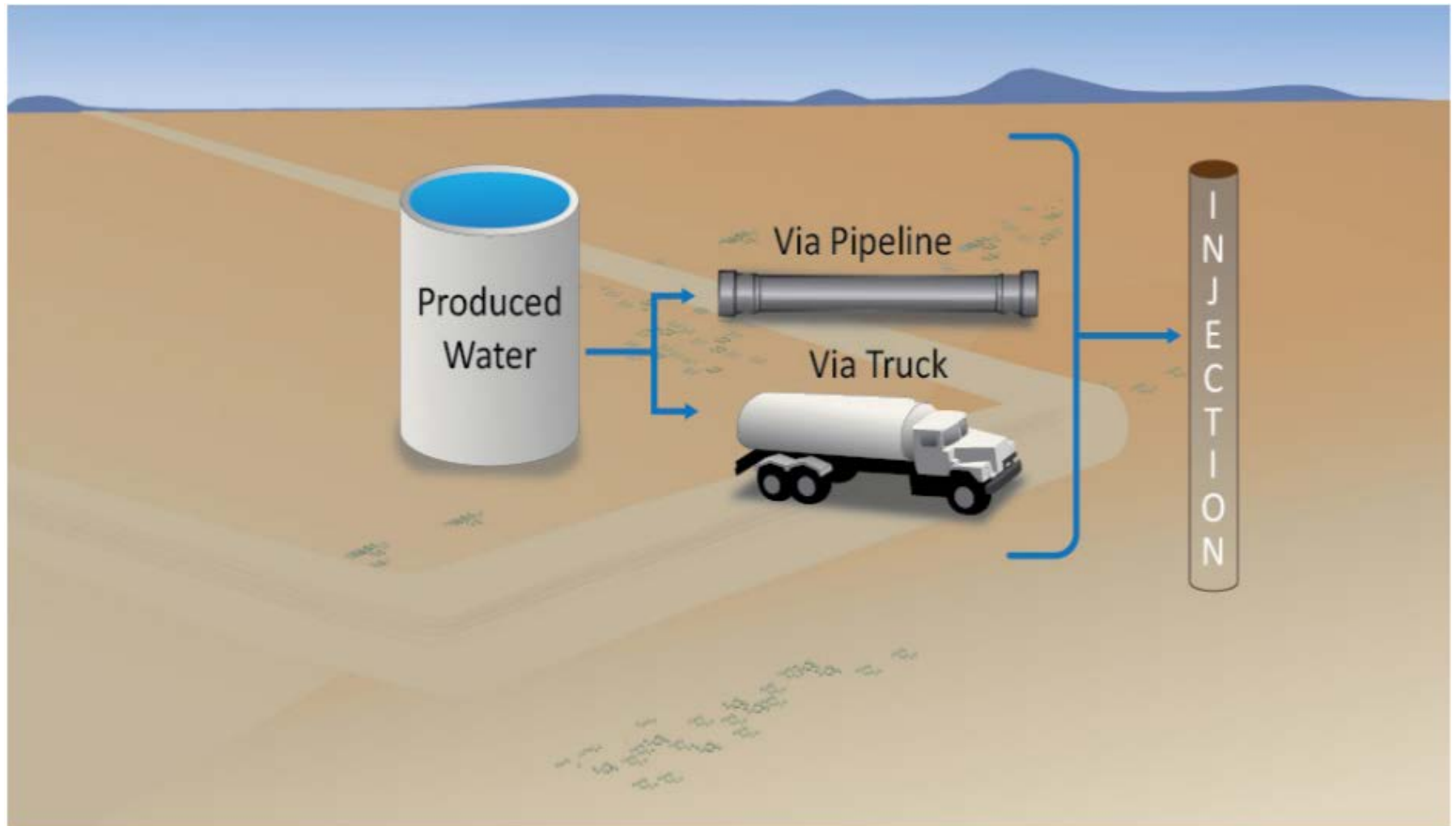




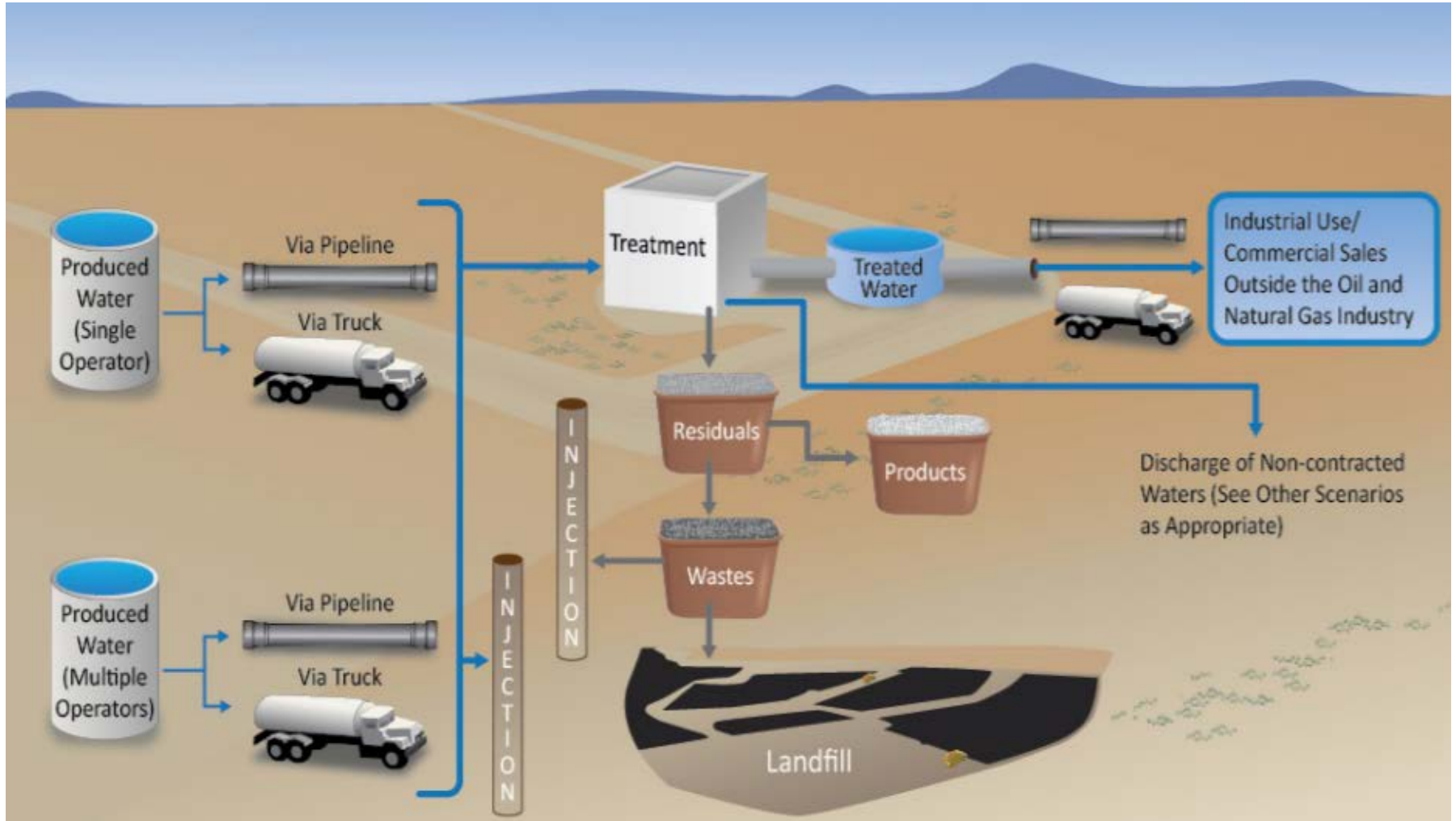
NGL Water Solutions
ECOS Spring Meeting
March 16, 2021



Less-Sustainable Produced Water Economy



More-Sustainable Produced Water Economy



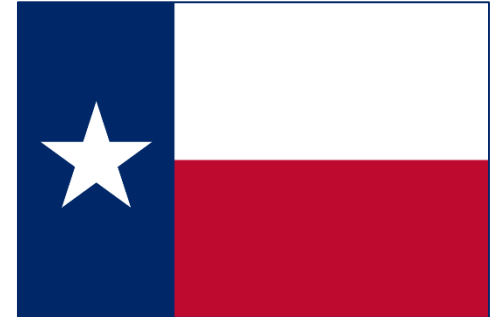
NGL PW Re-use & NPDES Permitting Considerations



- No NPDES Primacy
- NPDES Applications to EPA Region 6
- NM fulfills § 401 Cert.
- TODAY: NM not prepared to certify



- NPDES Primacy
- WY DEQ issues WYPDES permit
- TODAY: Anticline Disposal operates under WYPDES permit (orig. 2009).



- NPDES Primacy
- TCEQ issues TXPDES permit
- TODAY: TX will review individual applications for permit to discharge

Anticline Disposal / Recycling / Discharge


WYPDES discharge specs:


- Technology-Based Effluent Limits:
 - *Chapter 2, Appendix H, Wyoming Water Quality Rules and Regulations*
 - Oil and Grease Daily Max
 - Chloride Daily Max
 - Specific Conductance Daily Max
 - Sulfate Daily Max
- Water-Quality-Based Effluent Limits:
 - *Chapter 1, Wyoming Water Quality Rules and Regulations*
 - pH range and Daily Max Grab Sample
- Colorado River Salinity Forum:
 - *Chapter 6, Wyoming Water Quality Rules and Regulations, and the Colorado River Salinity Forum*
 - TDS Daily Max




NGL PW Re-use & NPDES Permitting Considerations




Social License to Operate 


Regulatory Pathway 

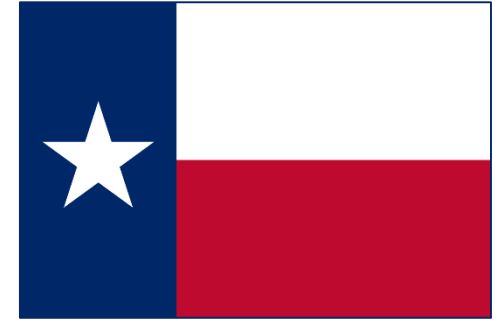
Economically Competitive 




Social License to Operate

Regulatory Pathway 

Economically Competitive 



Social License to Operate

Regulatory Pathway 

Economically Competitive 