

# **Background:**

9-13% bitumen, 3-7% water, and 80-85% solids. [1]

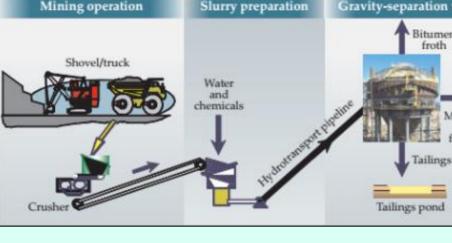
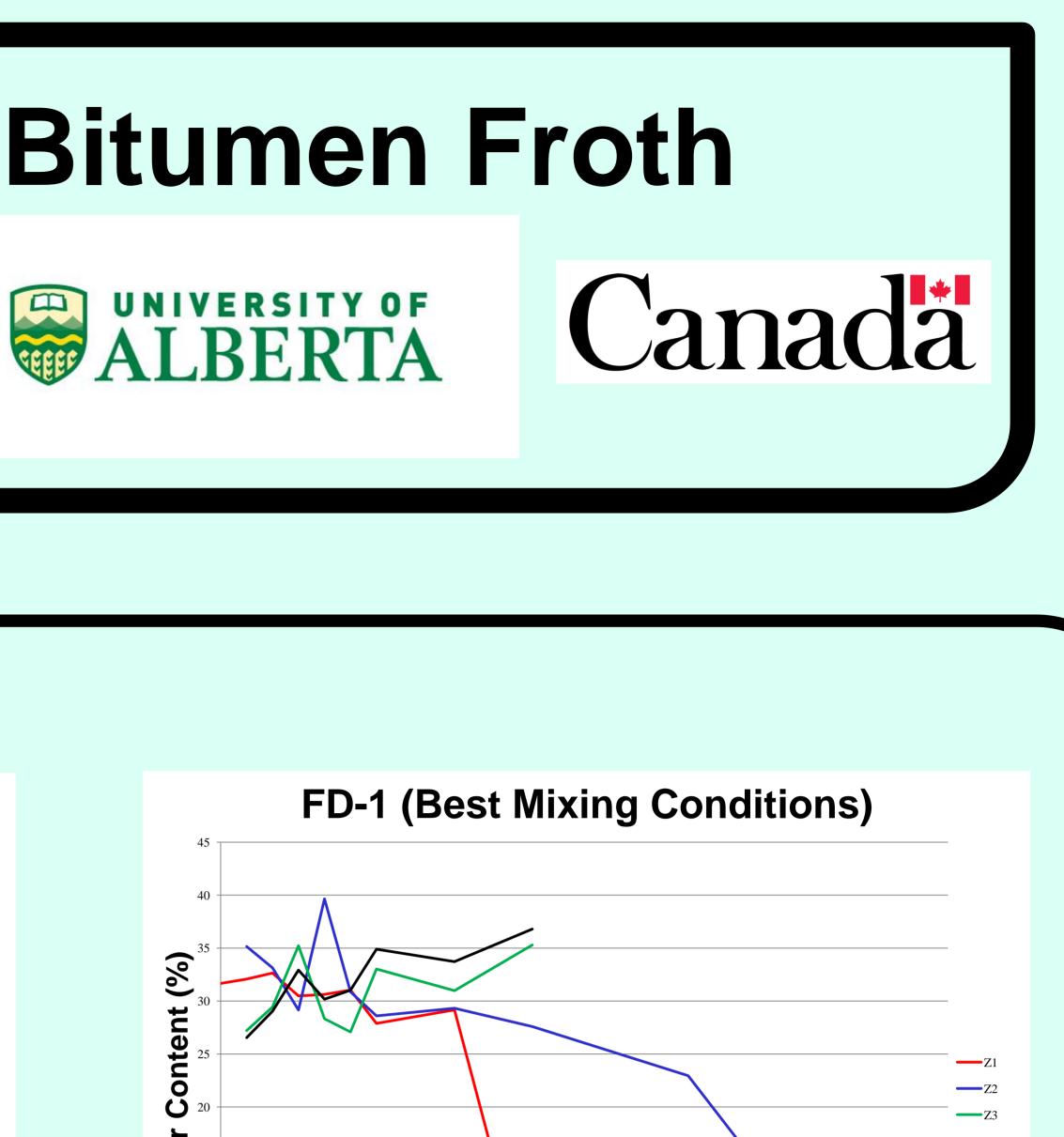




Figure 2 Froth and naphtha in ethylene glycol heating bath

Manipulated Variables	Respon Variable
<ul> <li>Injection Concentration</li> <li>(IC)</li> </ul>	-Settling
- Bulk concentration (BC) - Mixing energy (J)	-Water a solid con



[1] Murray Gray, Zhenghe Xu, and Jacob Masliyah. Physics in the Oil Sands of Alberta. [2] Alexandre Goldszal and Maurice Bourrel. Demulsification of Crude Oil Emulsions: Correlation to Microemulsion Phase Behaviour