

# Challenges Affecting Oil Spill Response

An Inland and Pipeline focus

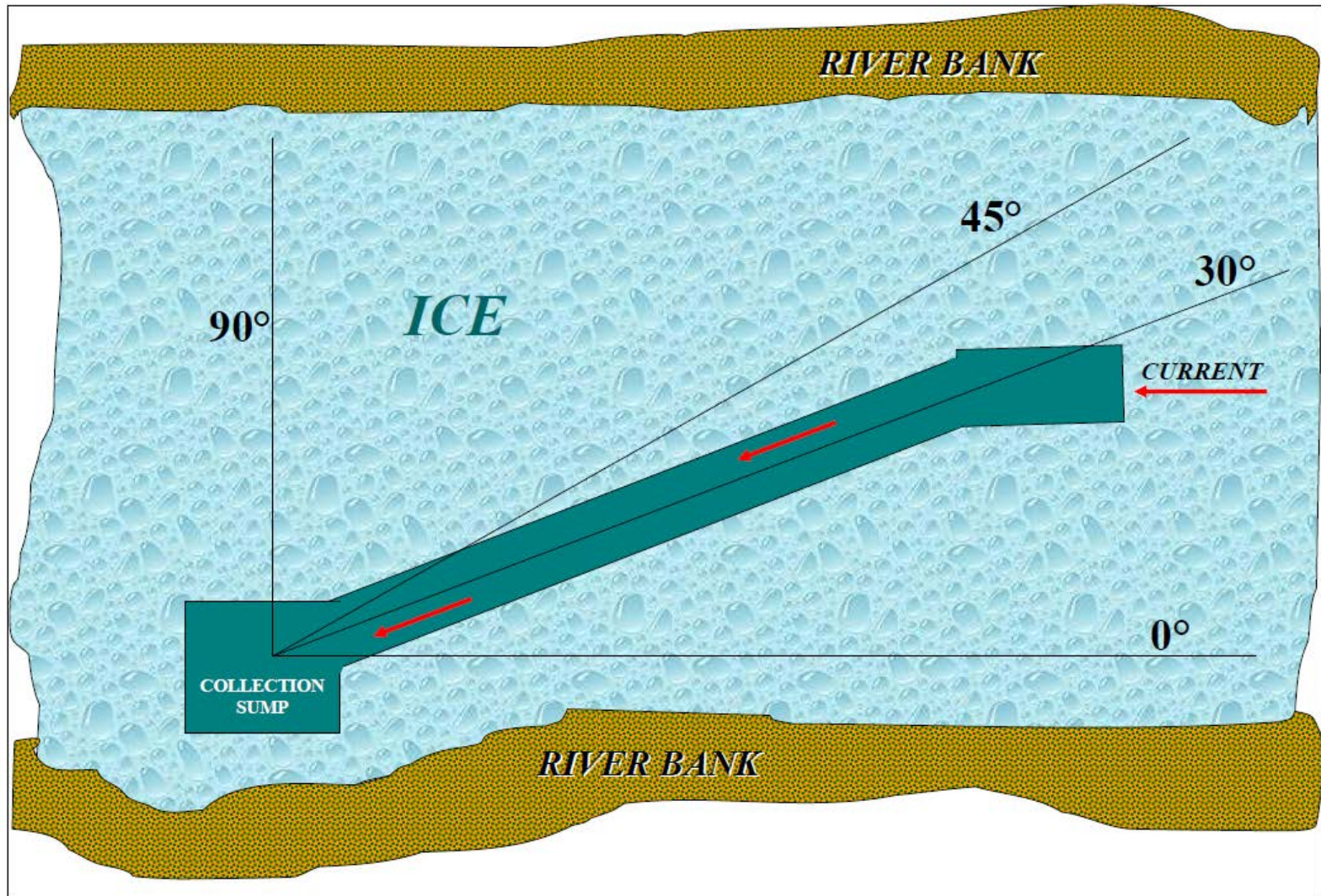
# Two Specific Challenges

- Oil Under Ice
  - Fresh and broken Ice at freeze-up
  - Solid Ice
  - Rotten and broken ice at break-up
- Type V Non-Floating Oils
  - Submerged Oil
  - Sinking Oil

# Safety Considerations for Oil Under Ice

- Responder Safety
  - Severe weather
  - Ice integrity
  - Open leads
- Public Safety
  - Ice blocks
  - Open leads

# Typical Ice Slotting



# Ice Slot





# Diversion barrier with collection sump



# Plywood Barrier

