Oilfield Waste and Spill Remediation

L. David Glatt, P.E. North Dakota Department of Health Environmental Health Section (701) 328-5150

Objective

- Keys to Success
- Remediation Guidance
 - Produced Water or Brine Spill (9/2016)
 - Oil Discharges
- Spill Prevention/Impact Minimization
- Waste Recycling Disposal

Key to Success

- Communication a "three way street"
 - Frequent, Timely and Honest
 - Willingness to Cooperate "Three sides to every story"
 - Characterize and identify the issues
- Timely Action
- Follow the Science- Guidance
- Know your remediation options



Guidelines for the Assessment and Cleanup of Saltwater Releases (9/2016)

Collaborative Effort– Varied Interests

Dynamic Document

Guidelines

- Initial Response
- Site Assessment
- Evaluation for Potential Actions
- Monitoring
- Reporting
- Goal is to get to Pre Release Conditions
- Department remediation goals may differ from landowner goals



Oil Remediation Work Group

- Varied Interests
- Follow the Science
- What is an appropriate Clean Up Goal?

Pipeline Montoring Workgroup

- Minimize frequency and Impact of Pipeline Releases
- Early Dectection Improve Response Time
- Identify Priority Areas
 - Pipeline location near sensitive environments
 - Landslide areas
 - Multiple Pipelines in a small geographic region
 - Pipeline Materials
 - Monitoring –Early Detection Options

Pipeline Monitorng Workgroup

- Operators Experience
- Workshop?

Solid Waste

- Recycling Options
 - Soil and Drill Cuttings
 - Produced Water
 - Guidelines-Rules July 1, 2017

TENORM

- License/Permit Requirements for:
 - Generators
 - Transporters
 - Landfills Only if approved by Department after a public review/comment process