MAUL FOSTER ALONGI

NM-363 Tracer Study

Tom Mullen and Erik Naylor

Outline

- Introduction
- Background
  - Site description
  - Project objectives
  - Tracer Overview
- Tracer study design
  - Geology
  - Water chemistry
  - Injection locations
- Tracer study implementation
  - Definition of a tracer study - Erik
  - Laboratory preparation and tracer solutions
  - Monitoring
  - Injections
- Results
- Conclusions

Background

- Site description
- Project objectives
- Tracer Overview

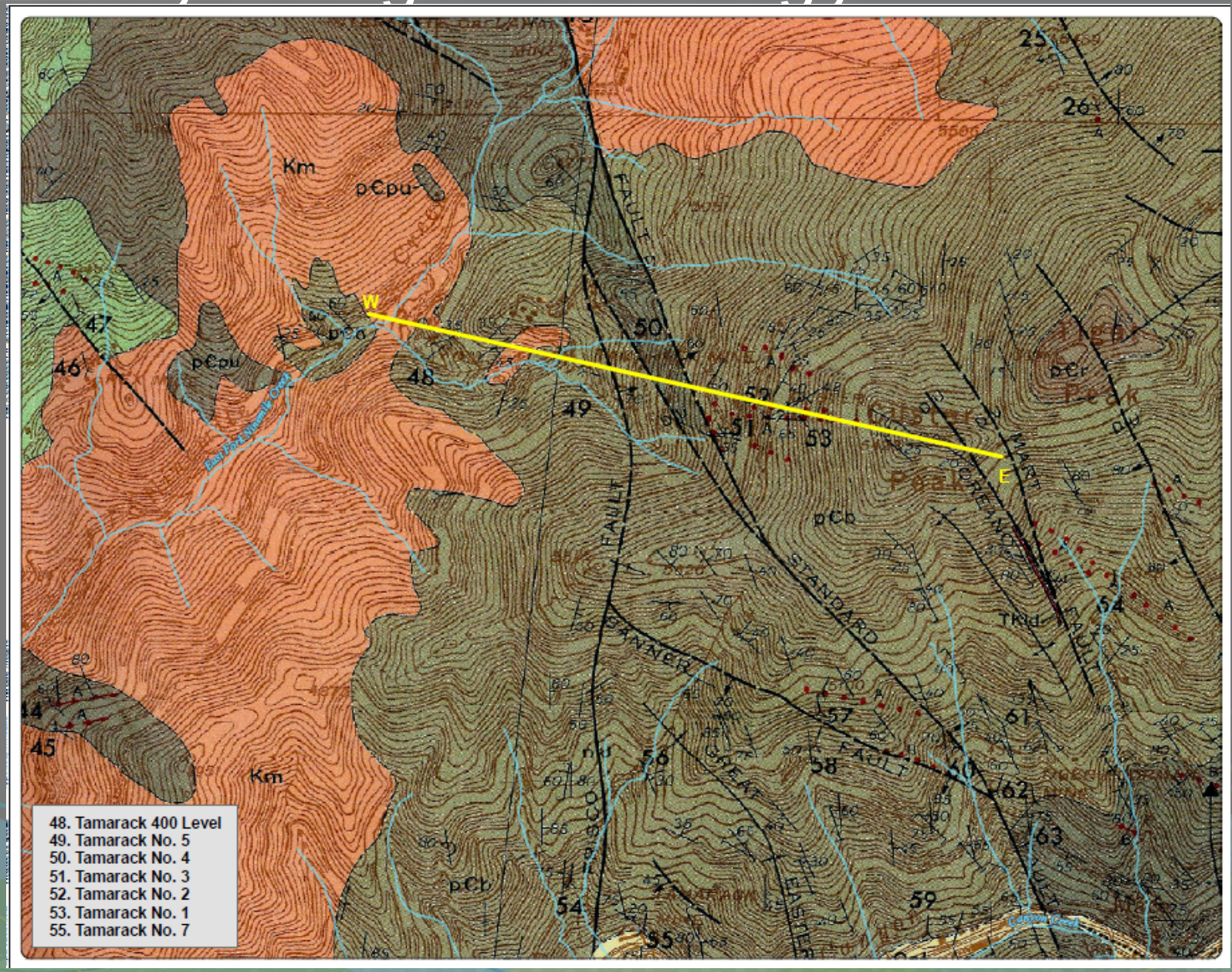
Study Location and Setting

Why did we need one?

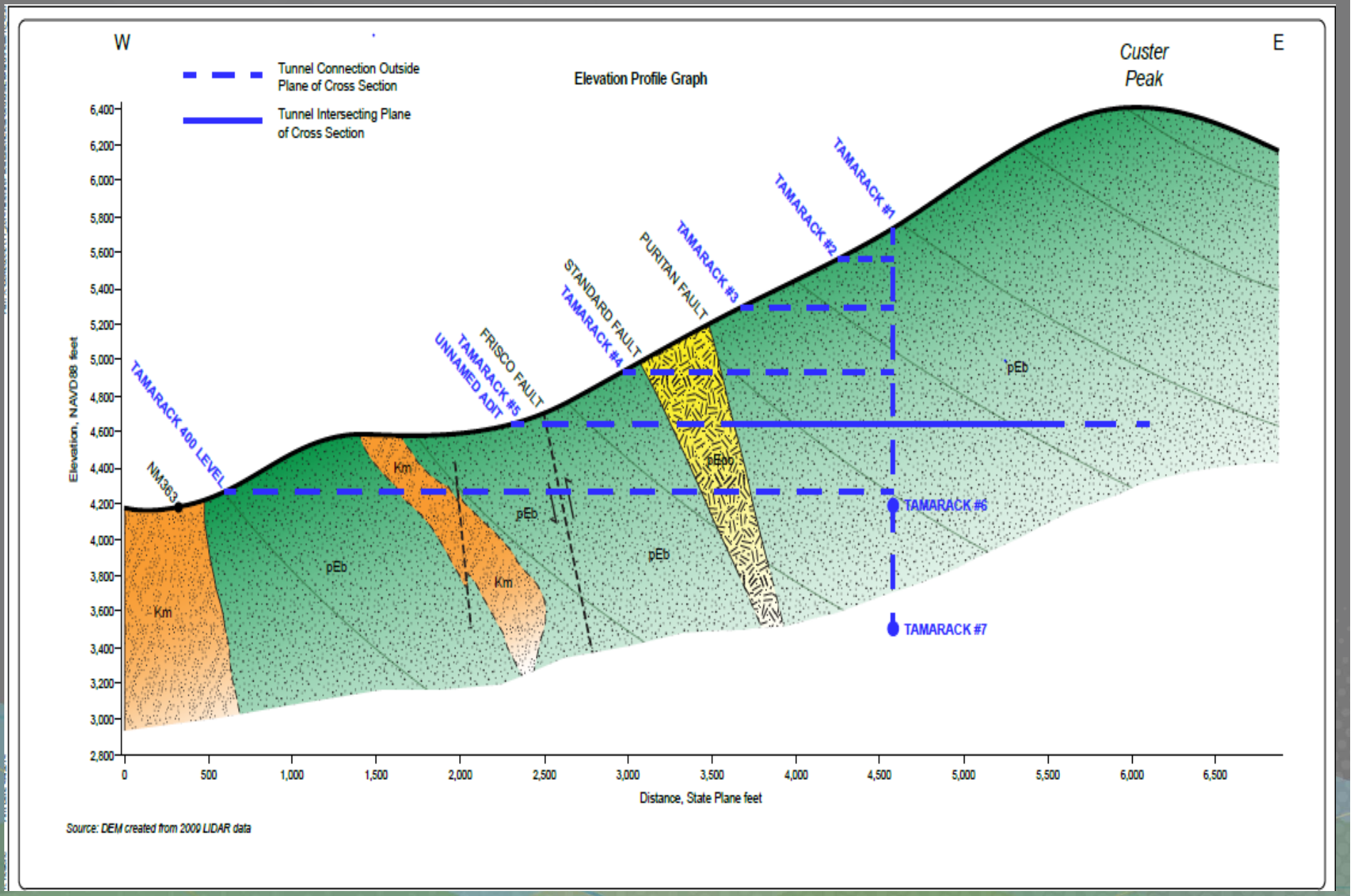
Tracer Study Design

- Geology
- Water chemistry
- Injection locations

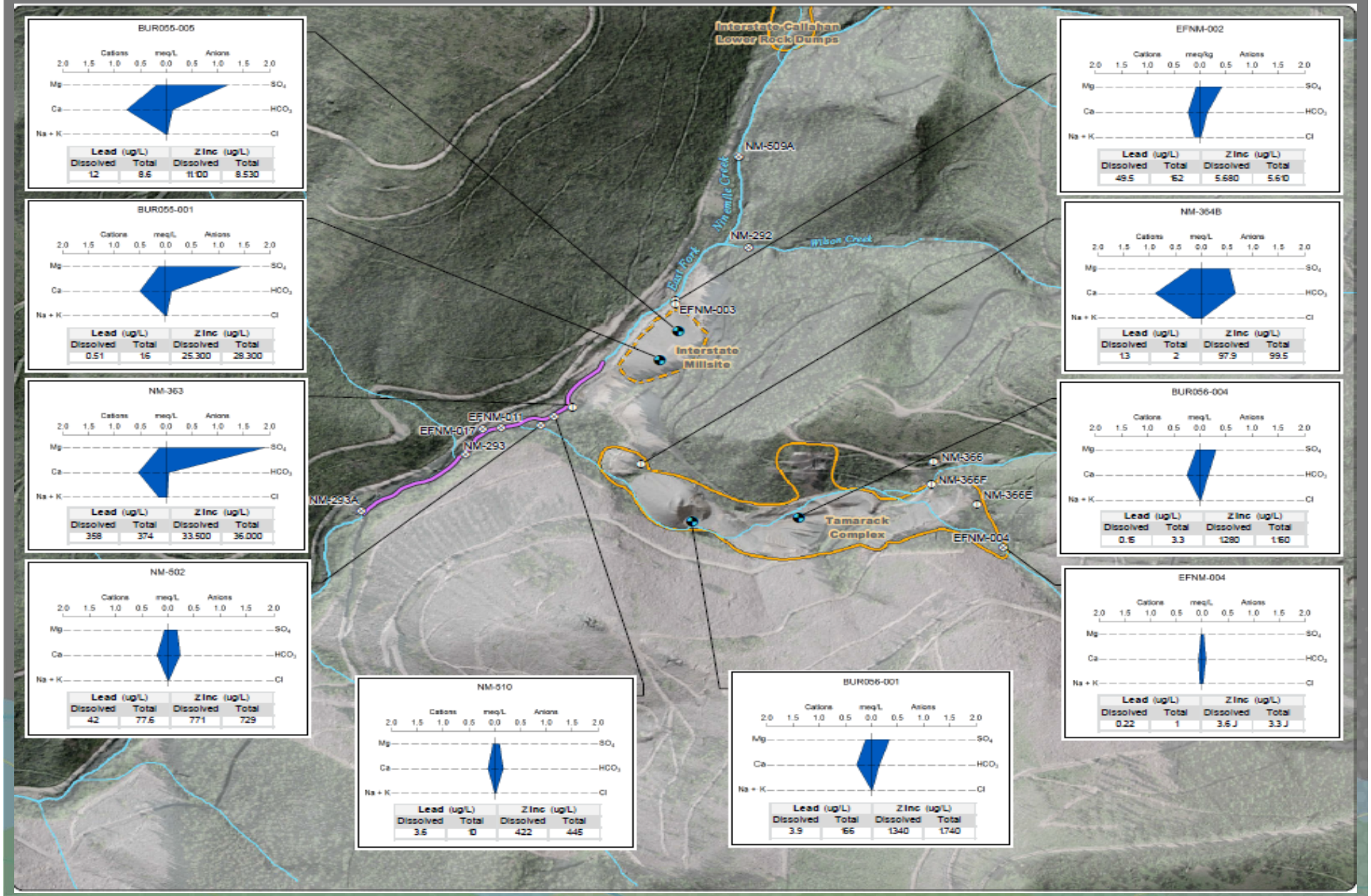
Study Design – Geology



Study Design – Geology



Study Design – Water Chemistry



Study Design – Injection Locations

Tracer Study Implementation

- Definition of a tracer study and tracer
- Laboratory preparation and tracer solutions
- Monitoring
- Injections

What is a tracer study and a tracer?

Laboratory Preparation

Monitoring

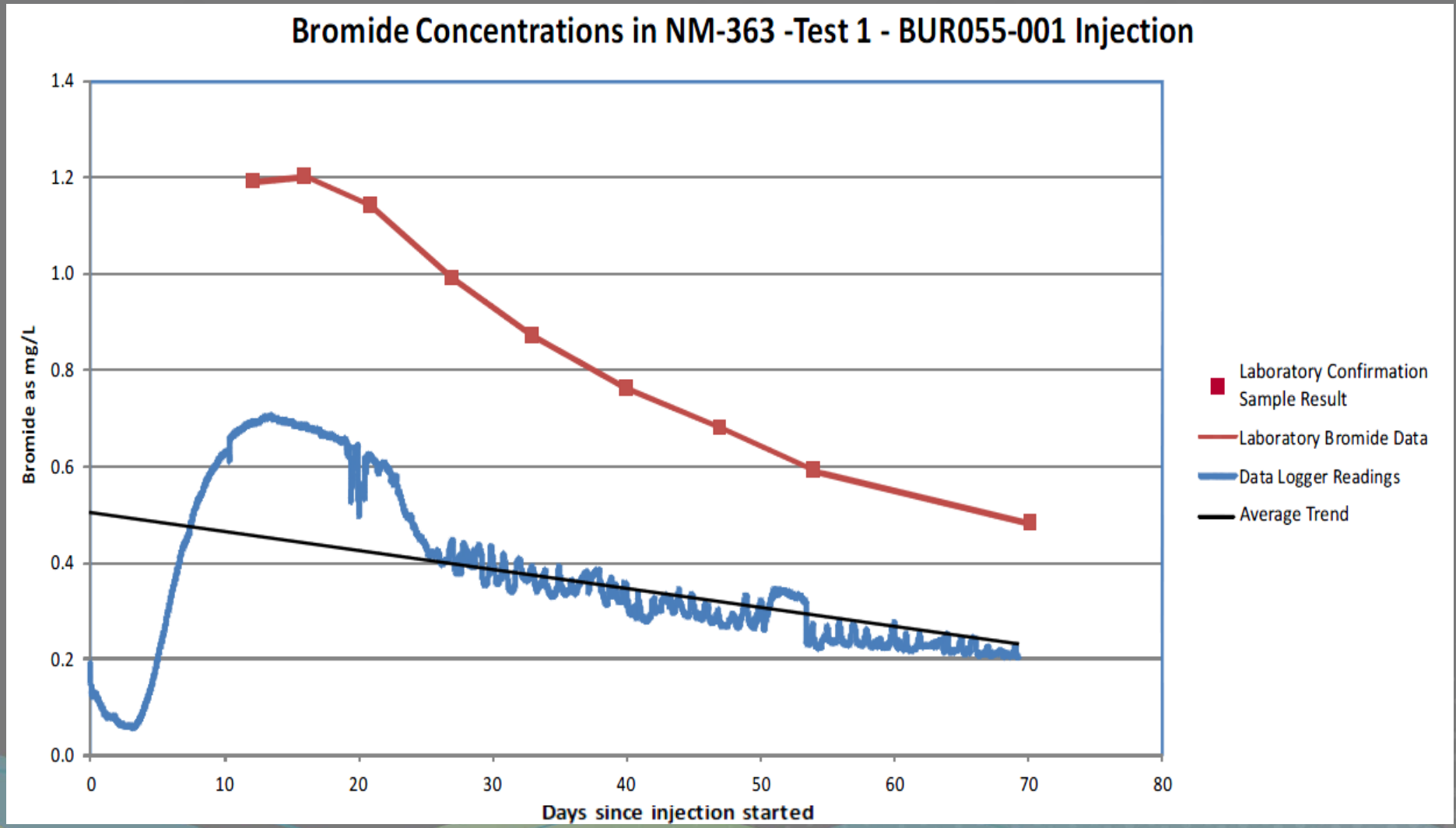
BUR055-001 MW Injections

NM364B Seep/Adit Injections

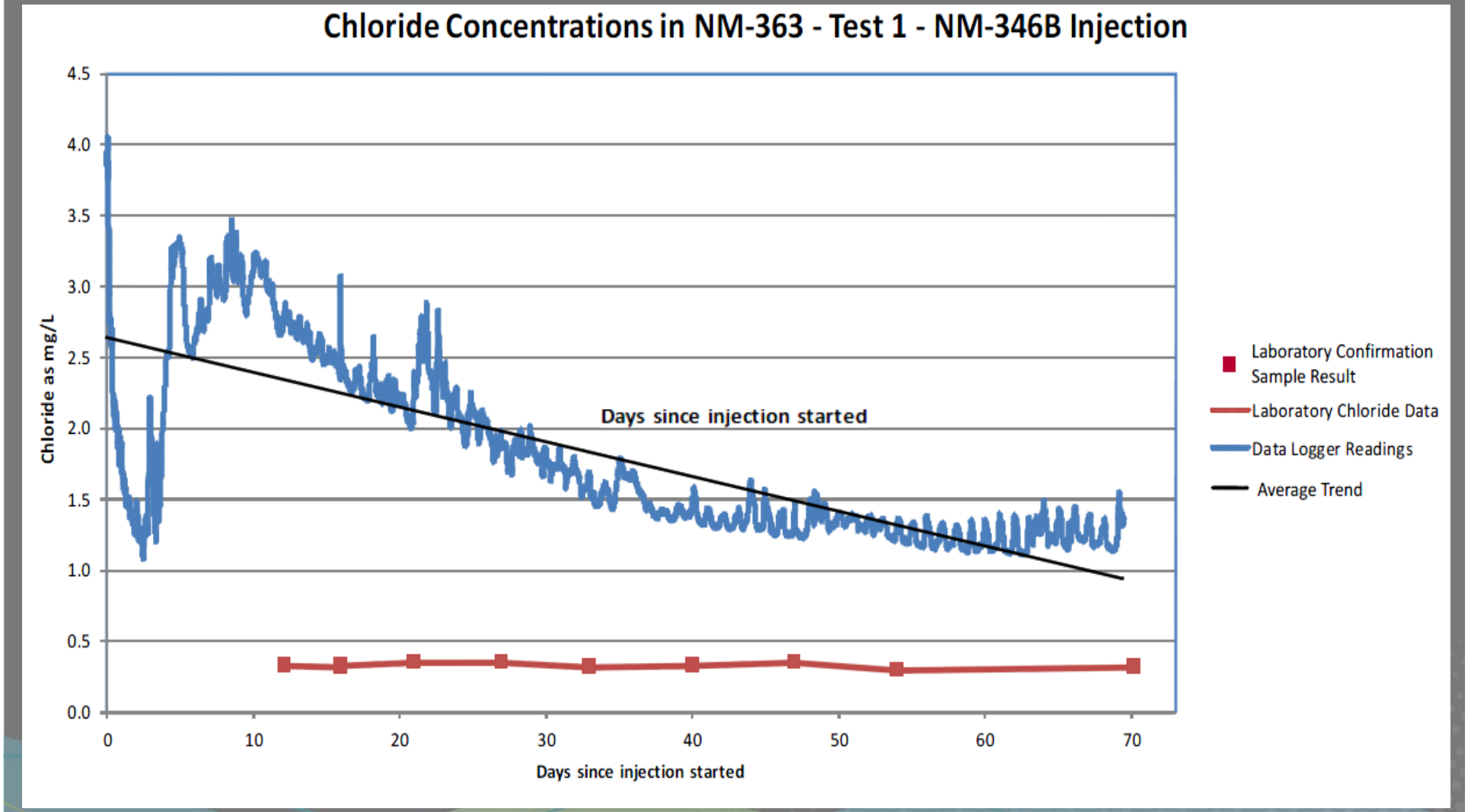
Hooligan Protection

Results

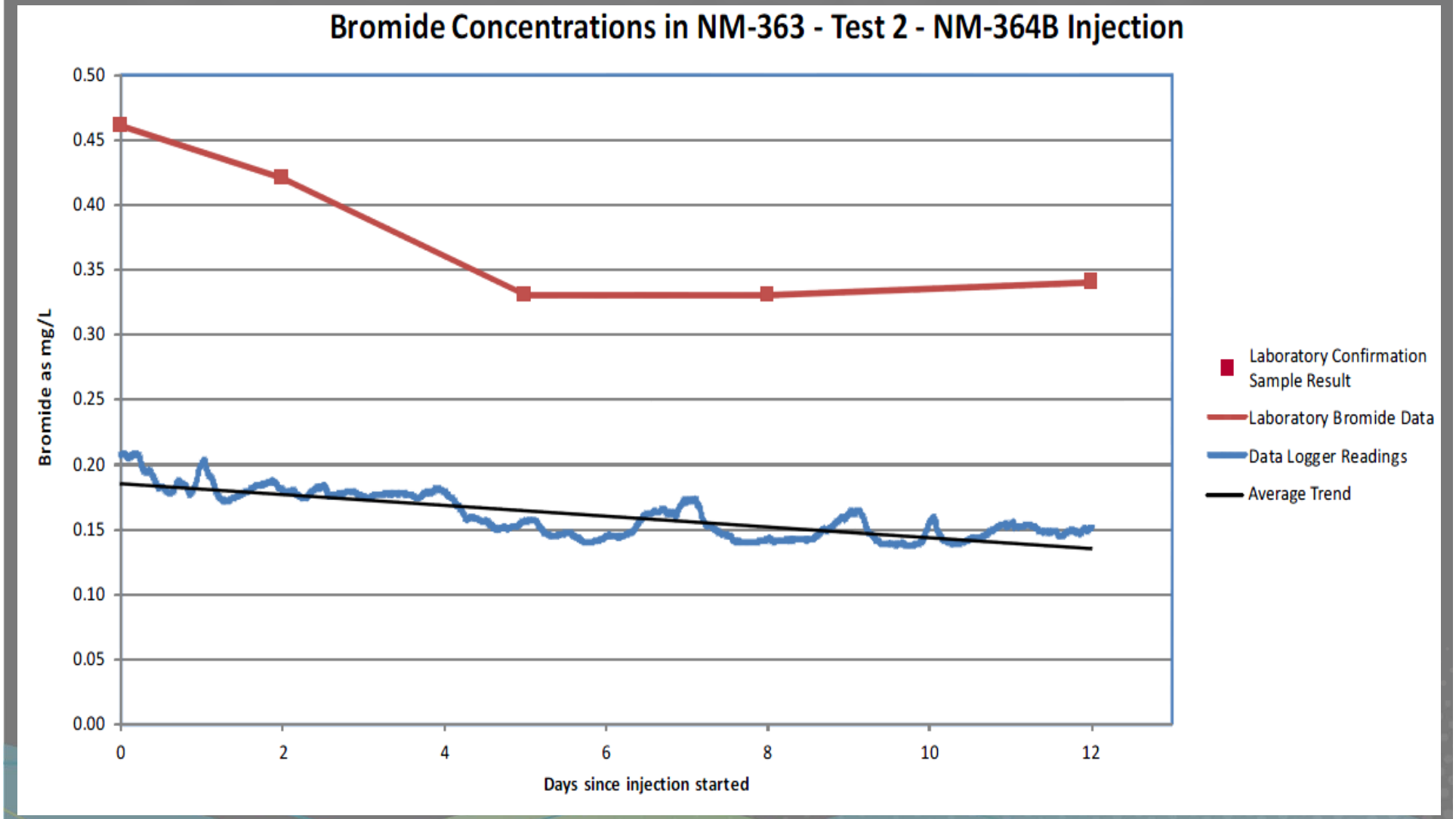
Br Breakthrough Curve – Test 1



Cl Breakthrough Curve – Test 1



Br Breakthrough Curve – Test 2



Conclusions