Critical Exposure Data Issues

- Solid Matrix Sampling Insufficient for Clean Up Decisions
- The Completed Exposure Pathways in the CSM are not Properly Quantified
- Current Clean Up Efficacy has not Been Evaluated
- Nature and Extent Data are not Complete for the Mine and Troy (Traditional RI)

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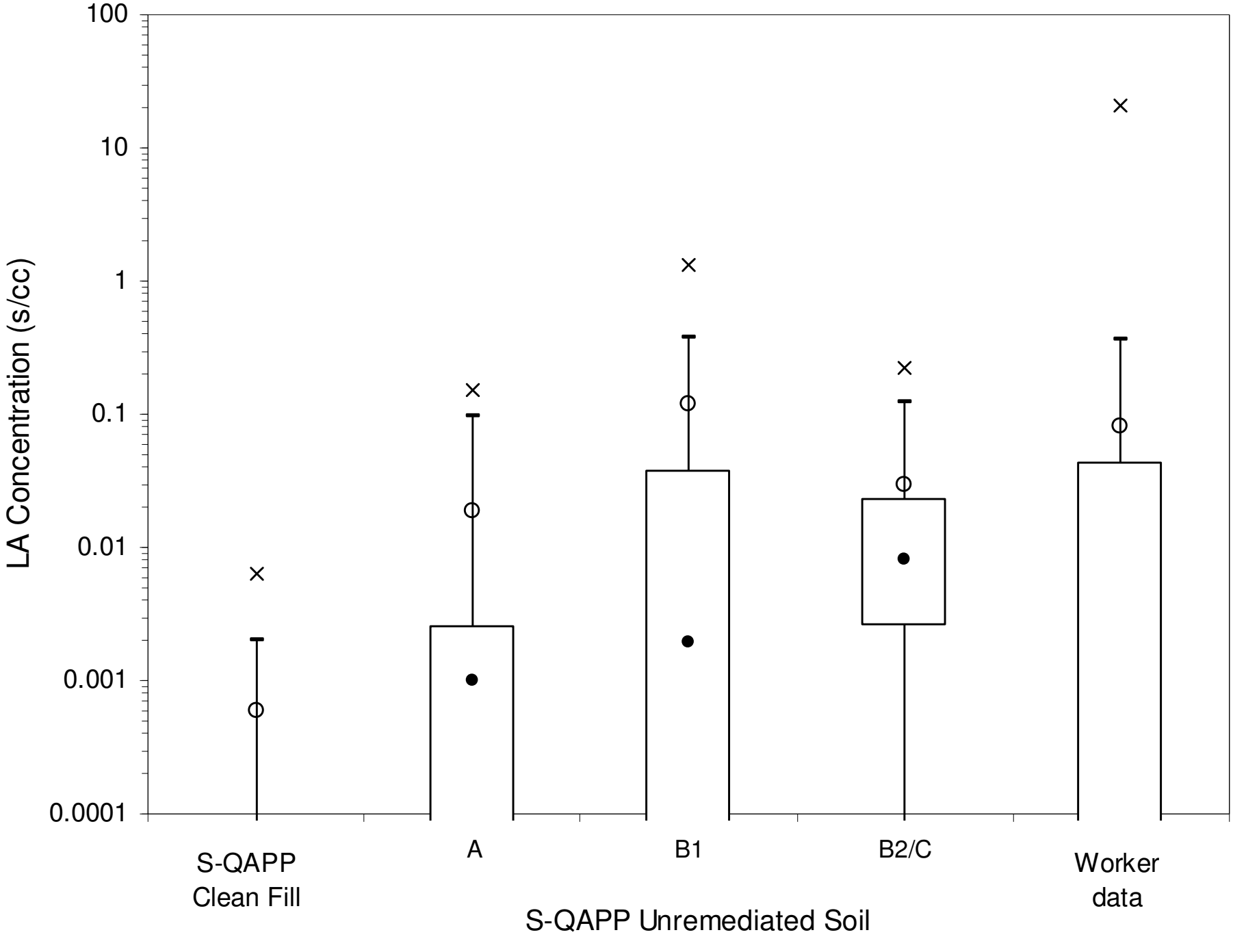
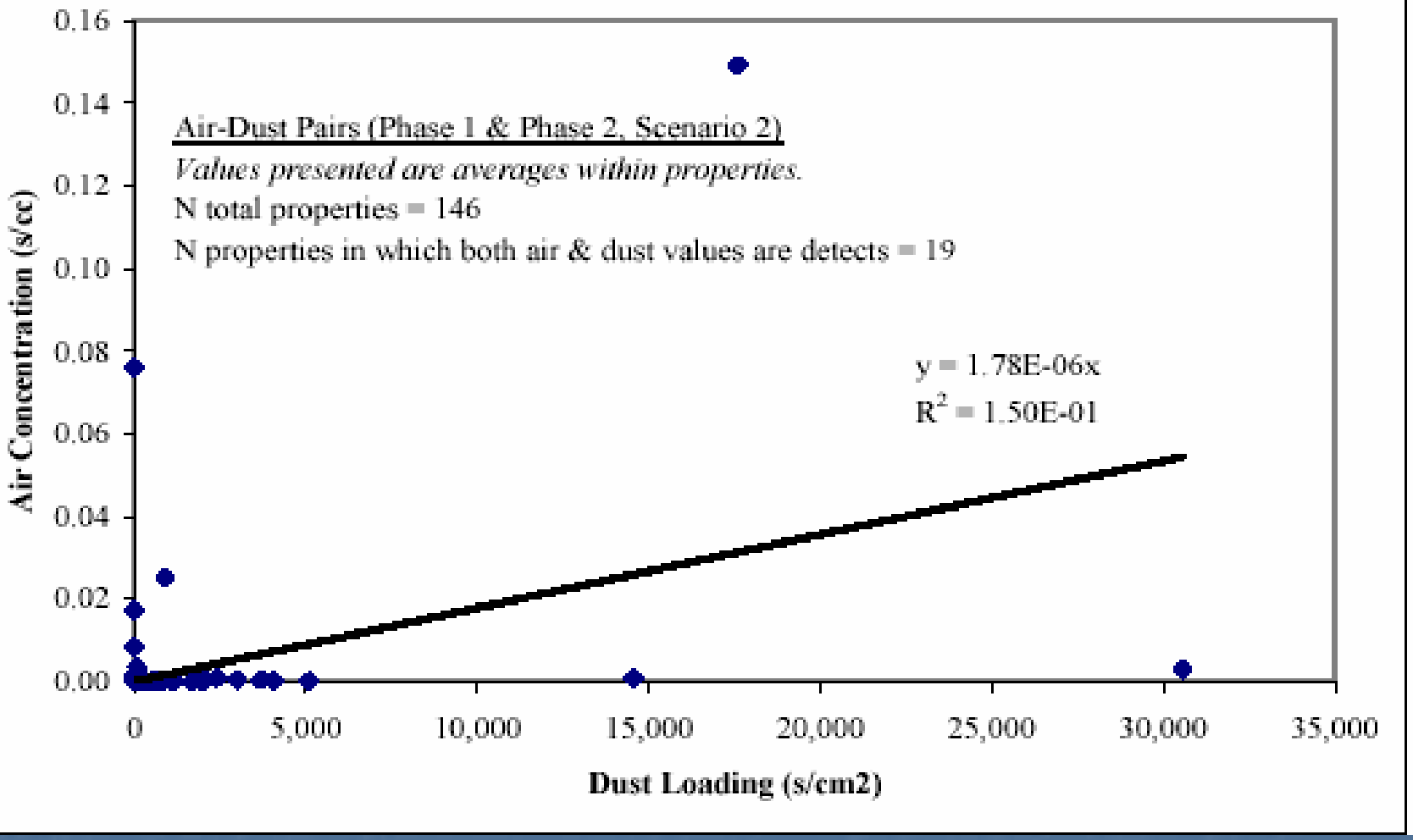
Solid Matrix Sampling

- Soils That are Non-Detect by PLM Still Generate Significant Airborne Fibers When Disturbed
- The Relationship Between LA Contamination of Indoor Dust to Indoor Air is Poorly Understood


100
10
1
0.1
0.01
0.001
0.0001
LA Concentration (s/cc)
S-QAPP Clean Fill
A
B1
B2/C
Worker data
S-QAPP Unremediated Soil

Metric	S-QAPP Clean Fill	S-QAPP Unremediated Soil			Worker data (OU4)
		A	B1	B2/C	
N	21	10	21	13	1434
DF	24%	60%	67%	77%	43%
Max	0.006	0.150	1.34	0.23	21.0
95%	0.002	0.097	0.374	0.123	0.359
75%	0.000	0.003	0.037	0.023	0.043
50%	0.000	0.001	0.002	0.008	0.000
25%	0.000	0.000	0.000	0.003	0.000
5%	0.000	0.000	0.000	0.000	0.000
BE	0.00059	0.019	0.12	0.029	0.082
UCL	7.75E-03	2.85E+05	5.13E+03	6.88E-01	1.61E-01
UB	0.0064	0.15	1.3	0.23	0.39

Indoor Dust to Indoor Air



Combined CSM/Efficacy Sampling

- The "Big Three" Pathways
  - Outdoor Ambient Air
  - Indoor Air (ABS)
  - Outdoor Air Around LA Contaminated Soils (ABS)
- Transportation Corridors
- The Rest

Nature and Extent

- Mine
  - Extent of Soil Contamination
  - Stream Transport
  - Airborne Transport
  - Surrounding Trees
- Troy
  - How Many Properties Impacted