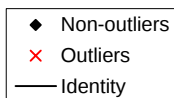
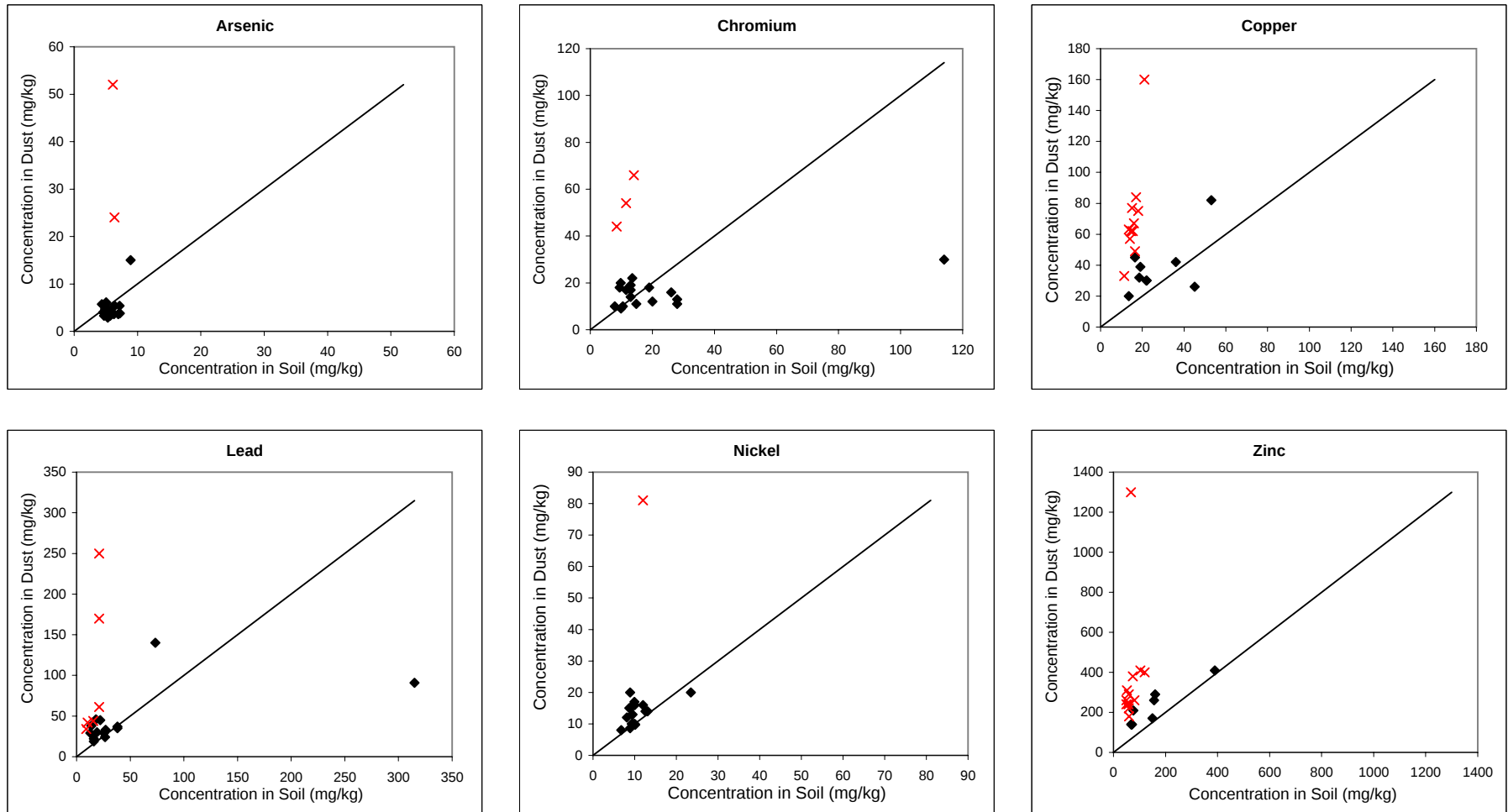


FIGURE 5-1. Dust vs. Soil



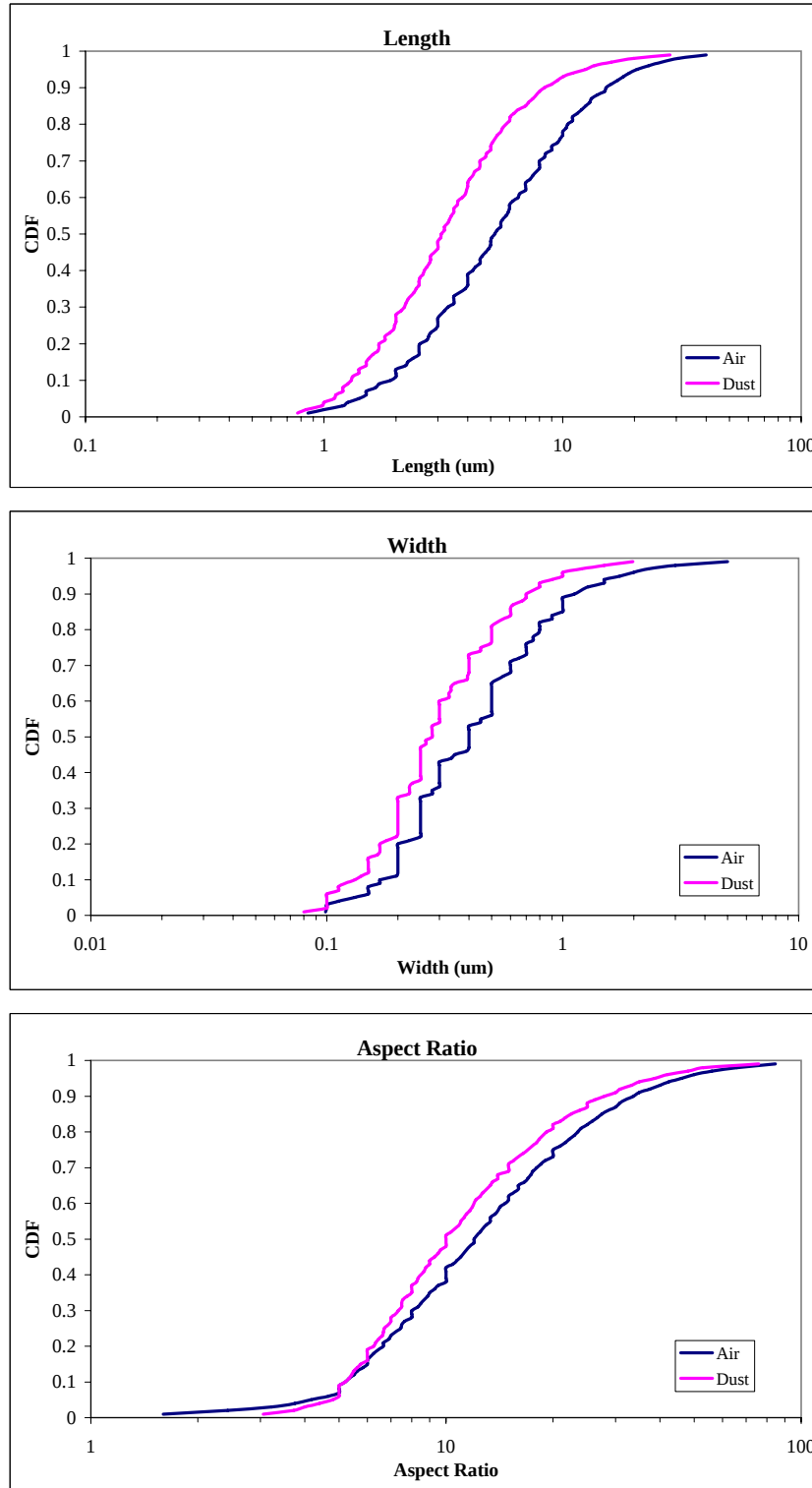
Soil = Average of yard/property and SUA soil samples
 Outliers = All samples where $C_{dust} > 2.8 * C_{soil}$ (see Appendix 5.2)

FIGURE 6-1

LA Particle Size Distribution

Dataset 1 = Air
Dataset 2 = Dust

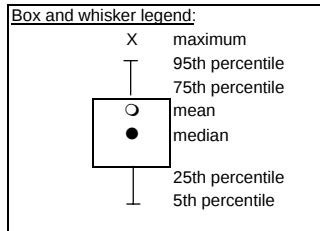
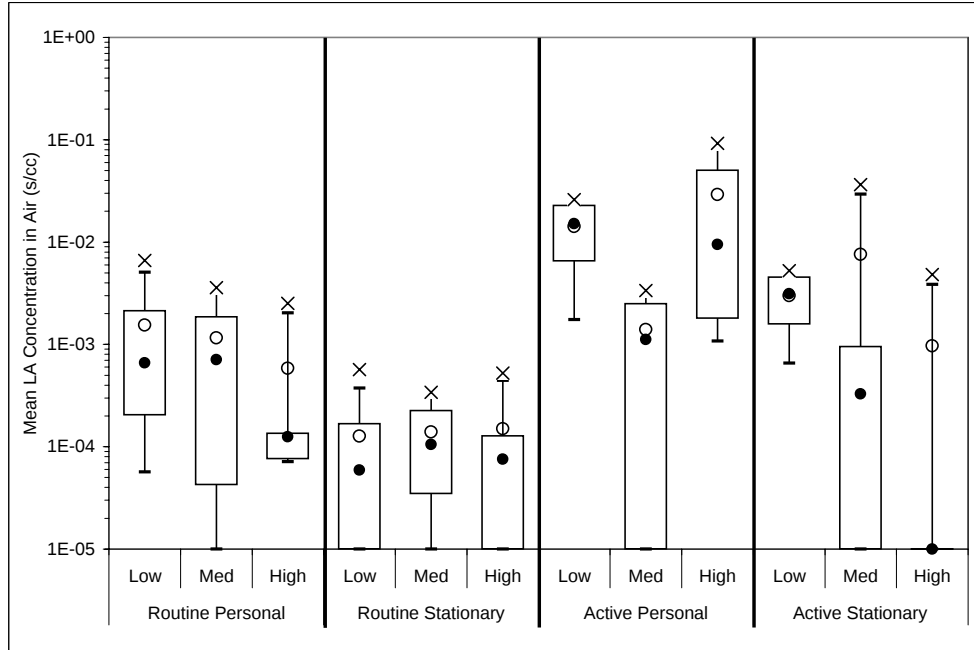
N= 18,949 structures
N= 2,665 structures



Based on Libby 2DB Download performed 2/1/2007.

	Air				Dust		
	Length	Width	AR		Length	Width	AR
95th percentile	20.50	1.75	46.00	95th percentile	12.50	1.00	38.67
75th percentile	9.50	0.70	20.00	75th percentile	5.07	0.45	17.00
50th percentile	5.20	0.40	12.00	50th percentile	3.10	0.28	10.00
25th percentile	3.00	0.25	7.45	25th percentile	1.97	0.20	6.70
5th percentile	1.40	0.13	4.17	5th percentile	1.10	0.10	4.80

FIGURE 6-2. SQAPP Task 2: Cdust vs. Cair for Indoor ABS Scenarios

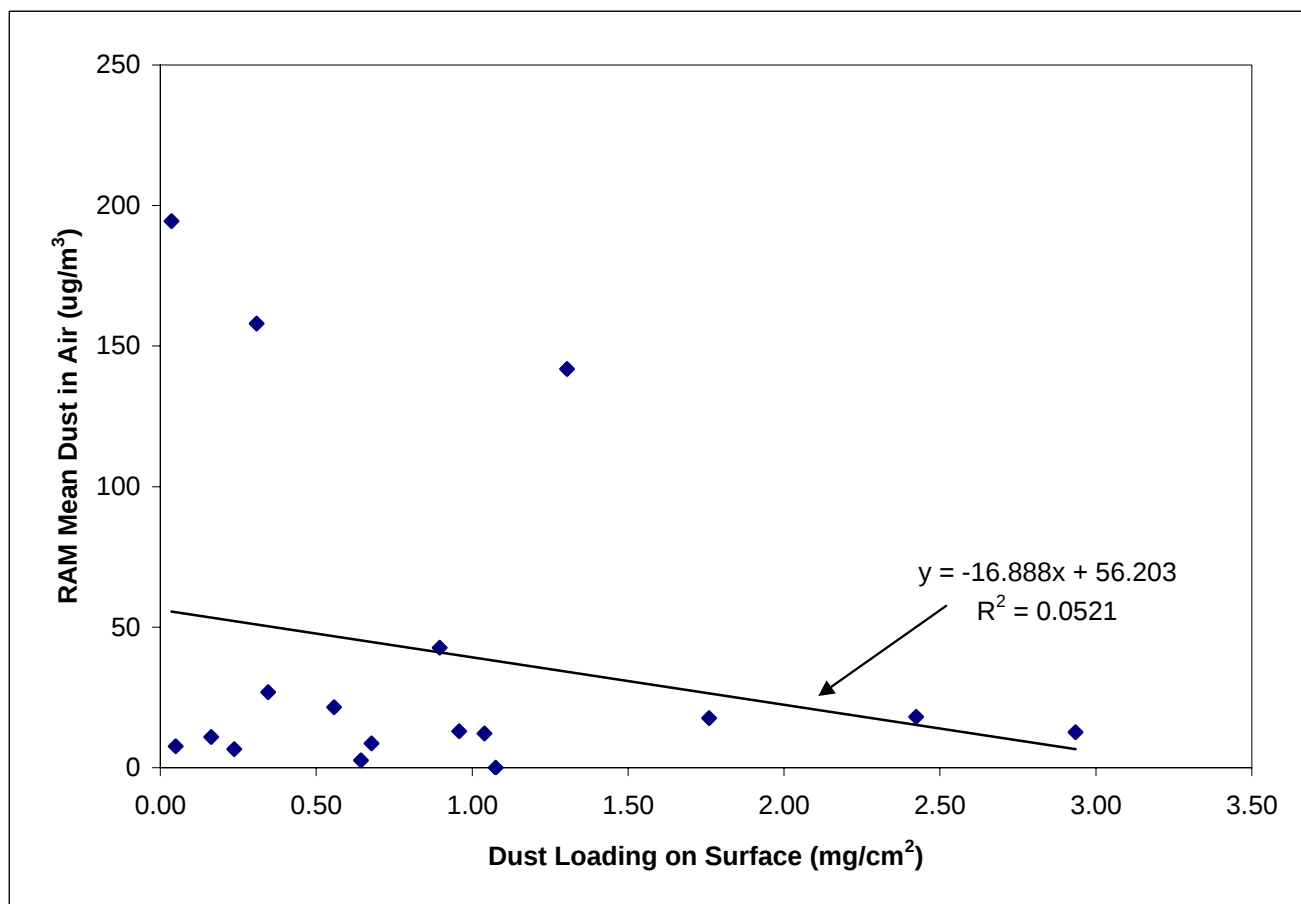


Dust Level:

- Low LA < 20 s/cm²
- Medium 20 s/cm² < LA < 200 s/cm²
- High LA > 200 s/cm²

Statistic	ROUTINE ACTIVITIES						ACTIVE CLEANING ACTIVITIES					
	PERSONAL			STATIONARY			PERSONAL			STATIONARY		
	Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High
N properties	9	7	5	13	7	5	4	4	6	4	5	5
Mean	1.55E-03	1.16E-03	5.84E-04	1.27E-04	1.40E-04	1.50E-04	1.42E-02	1.40E-03	2.92E-02	2.99E-03	7.57E-03	9.70E-04
Maximum	6.63E-03	3.58E-03	2.51E-03	5.67E-04	3.41E-04	5.24E-04	2.60E-02	3.36E-03	9.23E-02	5.26E-03	3.66E-02	4.81E-03
95th percentile	5.06E-03	3.37E-03	2.04E-03	3.75E-04	3.10E-04	4.45E-04	2.54E-02	3.19E-03	8.47E-02	5.12E-03	2.94E-02	3.85E-03
75th percentile	2.14E-03	1.87E-03	1.36E-04	1.68E-04	2.26E-04	1.28E-04	2.28E-02	2.50E-03	5.04E-02	4.55E-03	9.52E-04	1.00E-05
50th percentile	6.62E-04	7.09E-04	1.26E-04	5.94E-05	1.05E-04	7.58E-05	1.51E-02	1.11E-03	9.46E-03	3.14E-03	3.28E-04	1.00E-05
25th percentile	2.05E-04	4.26E-05	7.63E-05	1.00E-05	3.47E-05	1.00E-05	6.53E-03	1.00E-05	1.79E-03	1.57E-03	1.00E-05	1.00E-05
5th percentile	5.66E-05	1.00E-05	7.13E-05	1.00E-05	1.00E-05	1.00E-05	1.75E-03	1.00E-05	1.08E-03	6.54E-04	1.00E-05	1.00E-05

FIGURE 6-3
COMPARISON OF DUST LOADING ON SURFACES TO MEASURED RAM DUST LEVELS IN AIR



**FIGURE 7-1
COMPARISON OF RAM DUST LEVELS AT UPWIND AND
DOWNWIND LOCATIONS DURING OUTDOOR ABS ACTIVITIES**

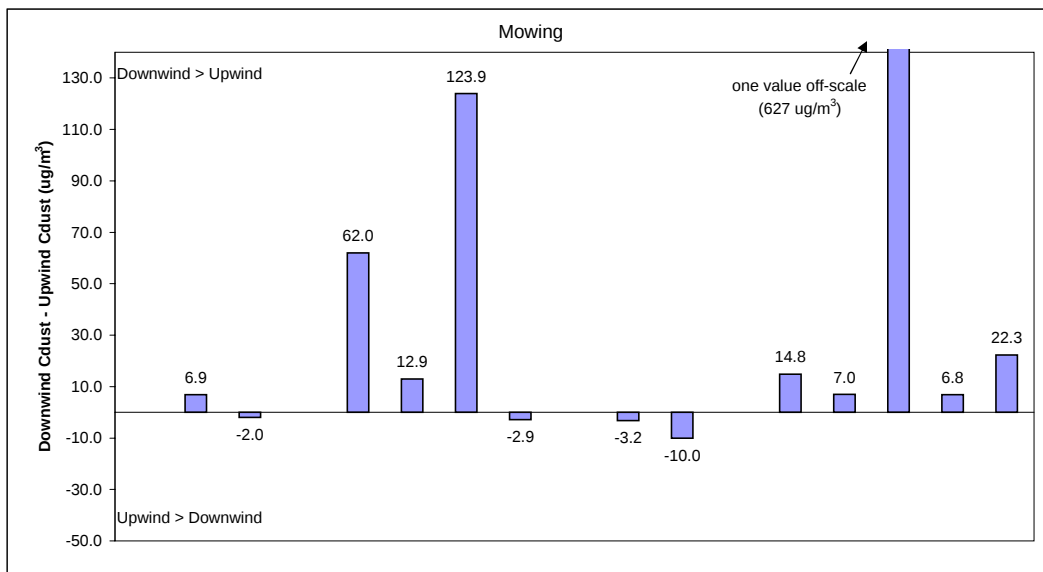
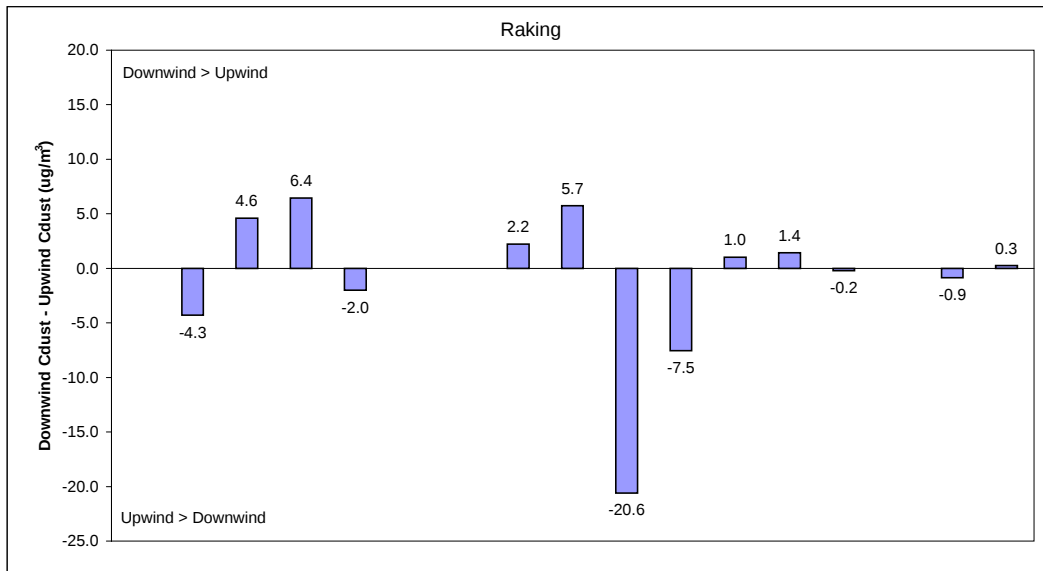
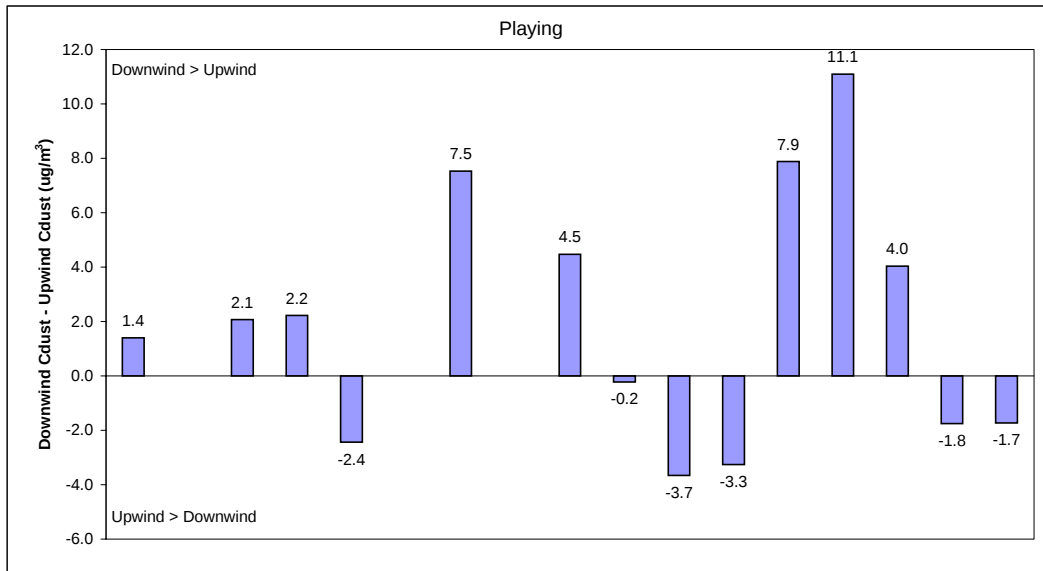
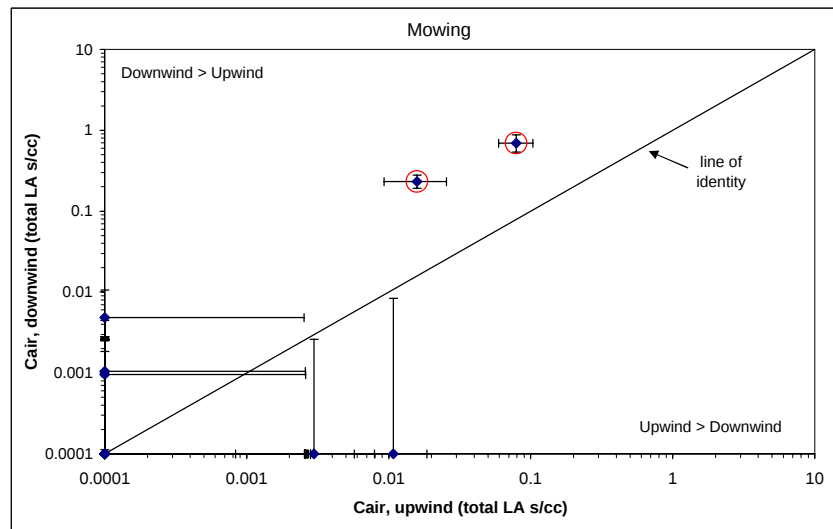
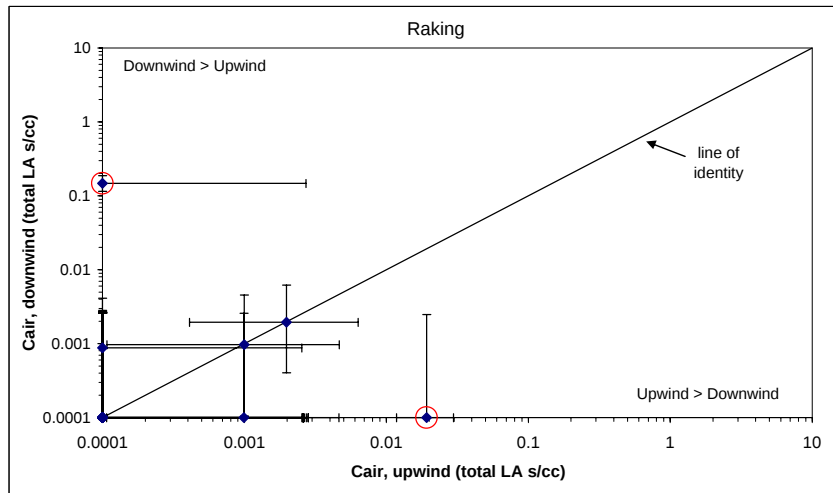
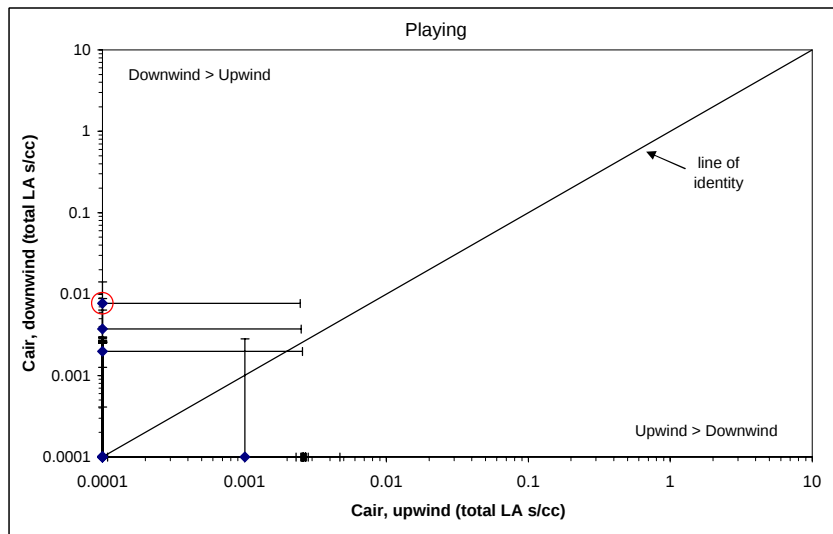
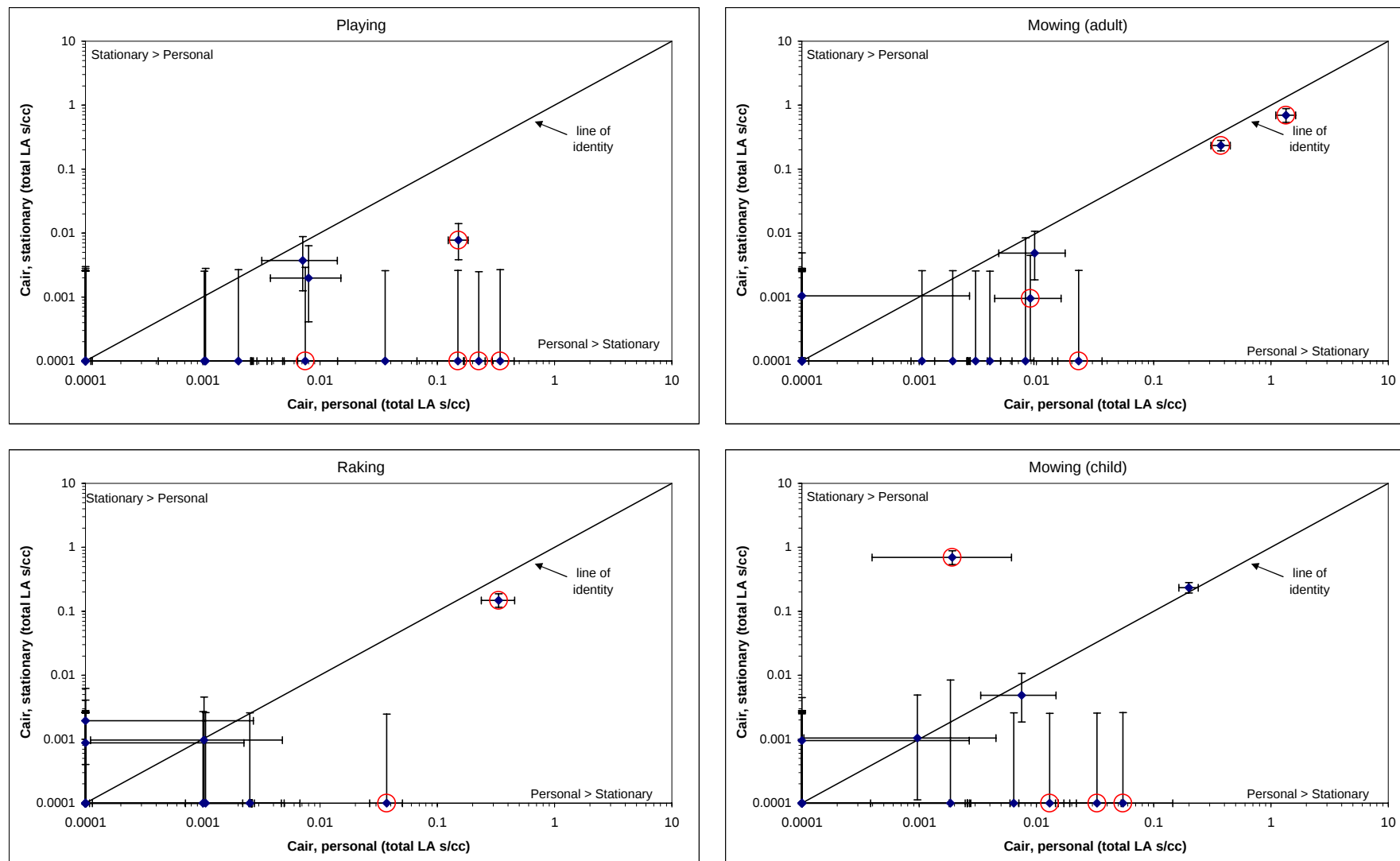


FIGURE 7-2
COMPARISON OF TOTAL LA AIR CONCENTRATIONS AT UPWIND AND
DOWNWIND STATIONARY MONITORS DURING OUTDOOR ABS ACTIVITIES



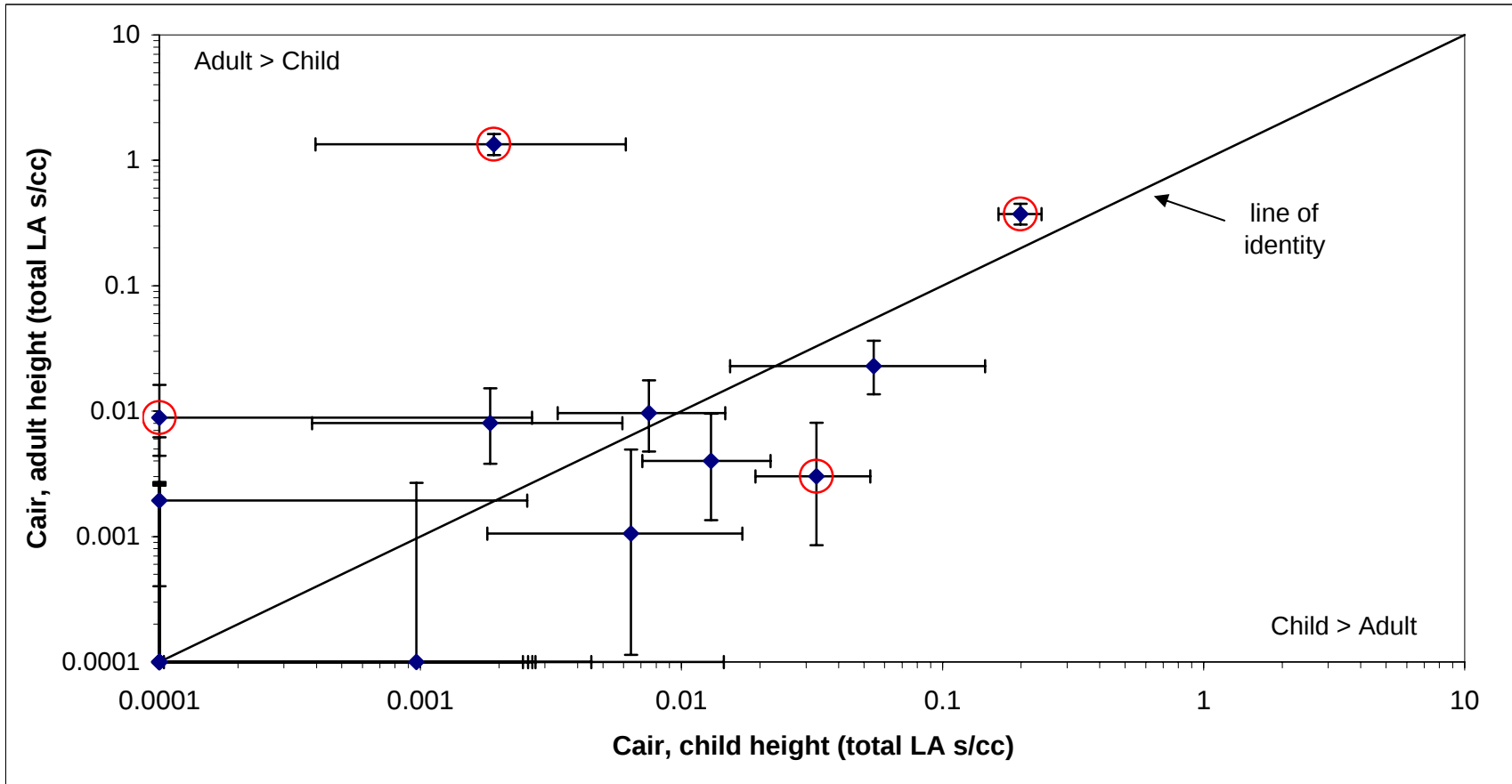
○ Statistically significant (95% CI)
 Non-detects are displayed at 0.0001 s/cc.
 Error bars represent the 95% Poisson Confidence Interval.

FIGURE 7-3
COMPARISON OF TOTAL LA AIR CONCENTRATIONS AT PERSONAL AND STATIONARY (DOWNWIND) MONITORS DURING OUTDOOR ABS ACTIVITIES



○ Statistically significant (95% CI)
 Non-detects are displayed at 0.0001 s/cc.
 Error bars represent the 95% Poisson Confidence Interval.

FIGURE 7-4
COMPARISON OF TOTAL LA AIR CONCENTRATIONS AT
CHILD AND ADULT HEIGHTS DURING MOWING ACTIVITIES



○ Statistically significant (95% CI)
 Non-detects are displayed at 0.0001 s/cc.
 Error bars represent the 95% Poisson Confidence Interval.

FIGURE 7-5
COMPARISON OF MEASURED RAM DUST LEVELS TO TOTAL LA CONCENTRATIONS IN AIR

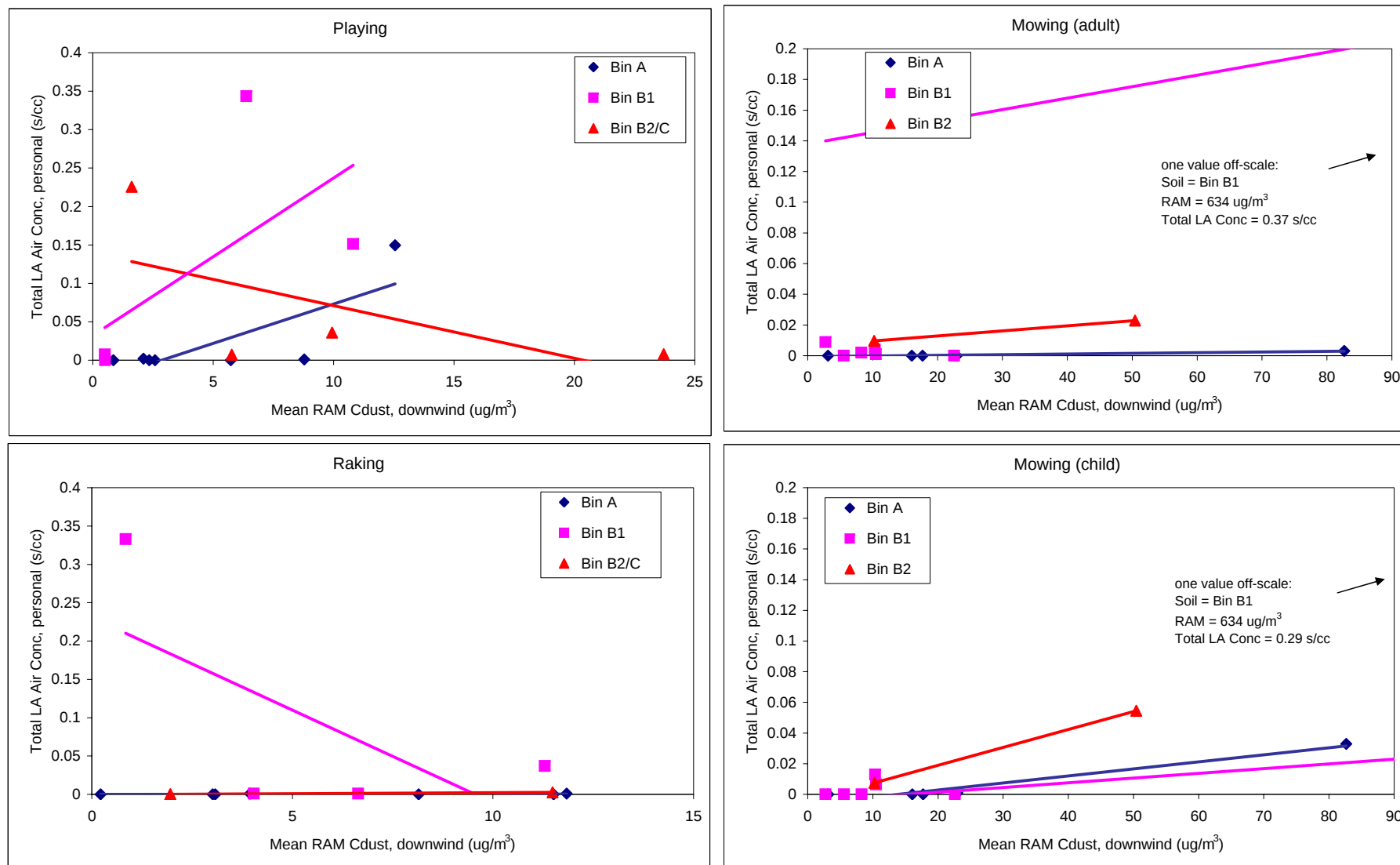
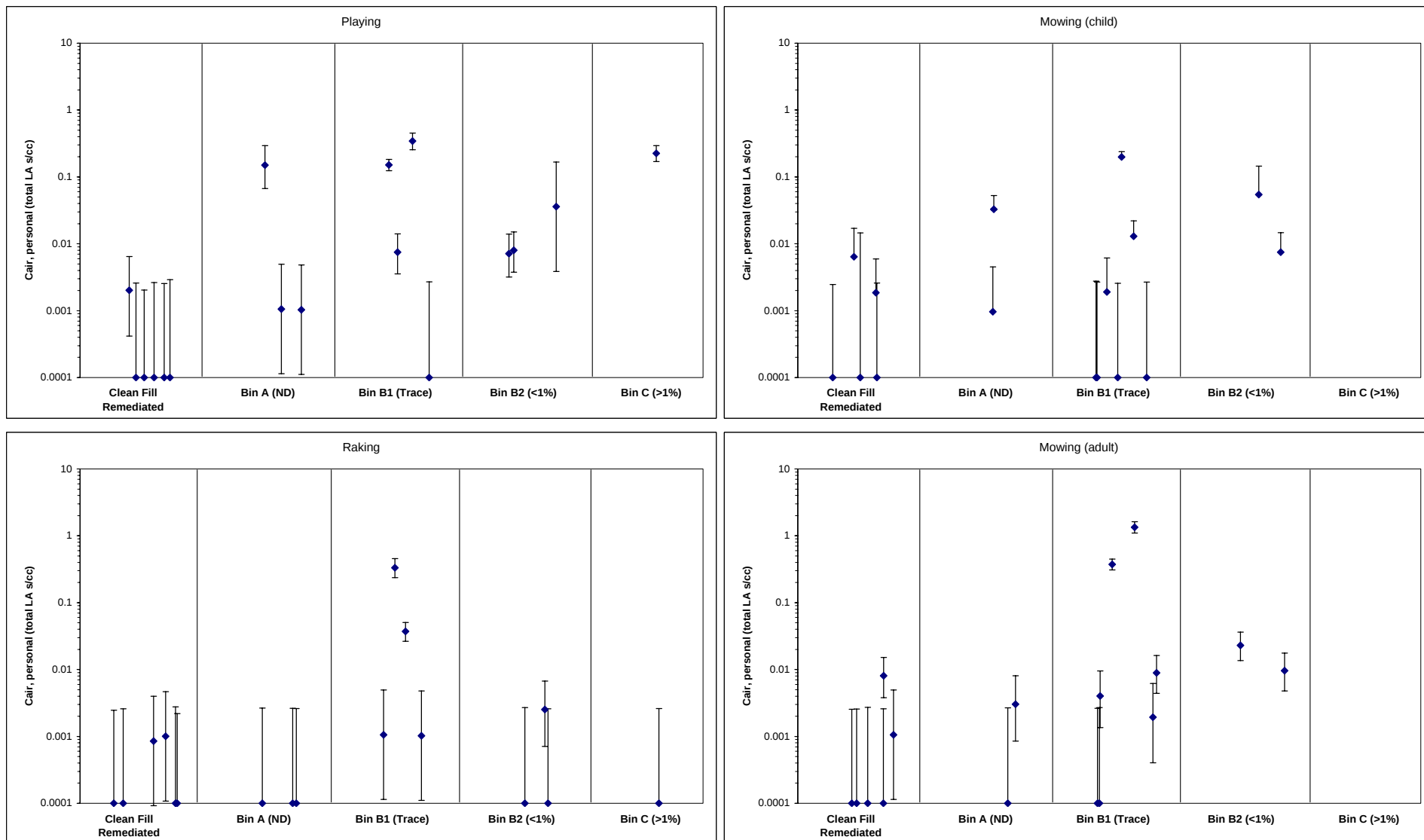
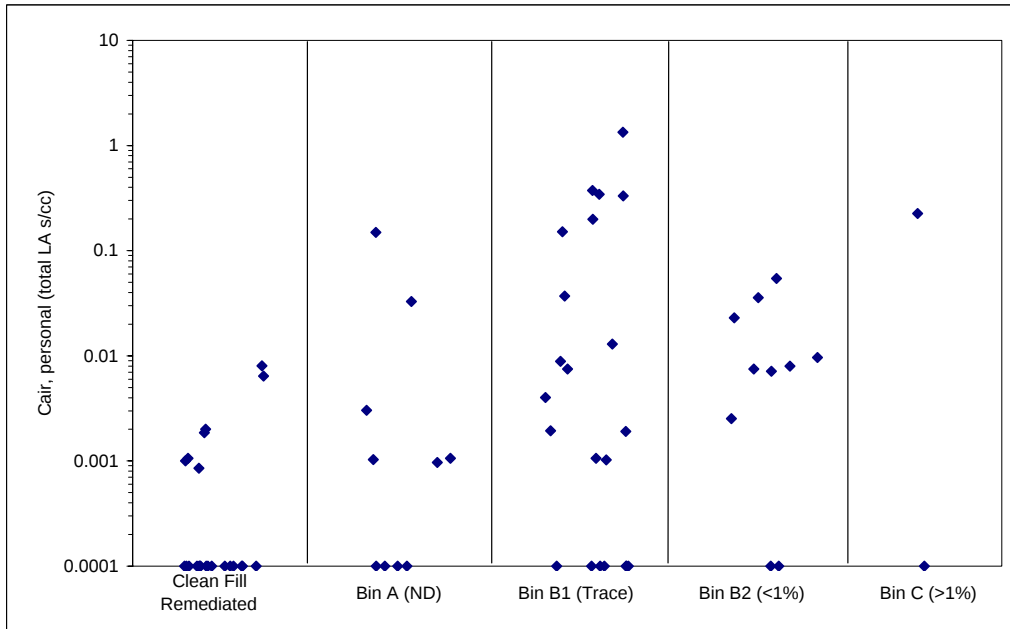


FIGURE 7-6
COMPARISON OF LA LEVELS IN SOIL AND PERSONAL AIR SAMPLES BY OUTDOOR ABS SCENARIO

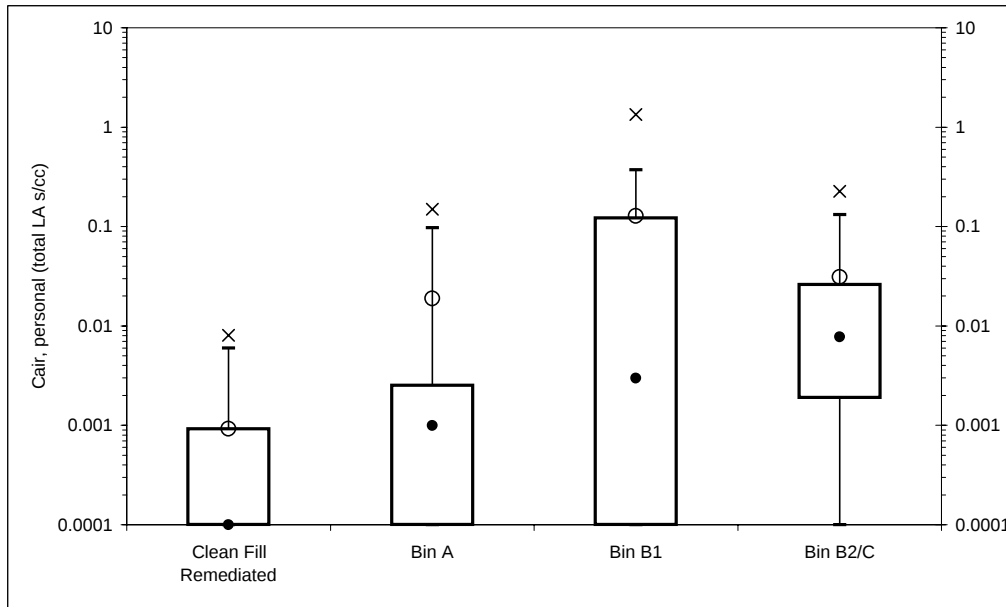


Non-detects are displayed at 0.0001 s/cc.
Error bars represent the 95% Poisson Confidence Interval.

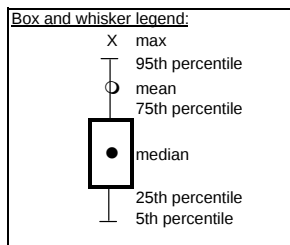
FIGURE 7-7
COMPARISON OF LA LEVELS IN SOIL AND PERSONAL AIR SAMPLES
ACROSS ALL OUTDOOR ABS SCENARIOS



Non-detects are displayed at 0.0001 s/cc.



Non-detects are displayed at 0.0001 s/cc.



	Clean Fill (Remed)	Bin A	Bin B1	Bin B2/C
N samples	23	10	22	12
max	0.0081	0.15	1.3	0.23
mean	0.00092	0.019	0.13	0.031
95th percentile	0.0060	0.097	0.37	0.13
75th percentile	0.00093	0.0025	0.12	0.026
50th percentile	0	0.0010	0.0030	0.0077
25th percentile	0	0	0	0.0019
5th percentile	0	0	0	0

Figure 9-1 Comparison of SEM and TEM Results

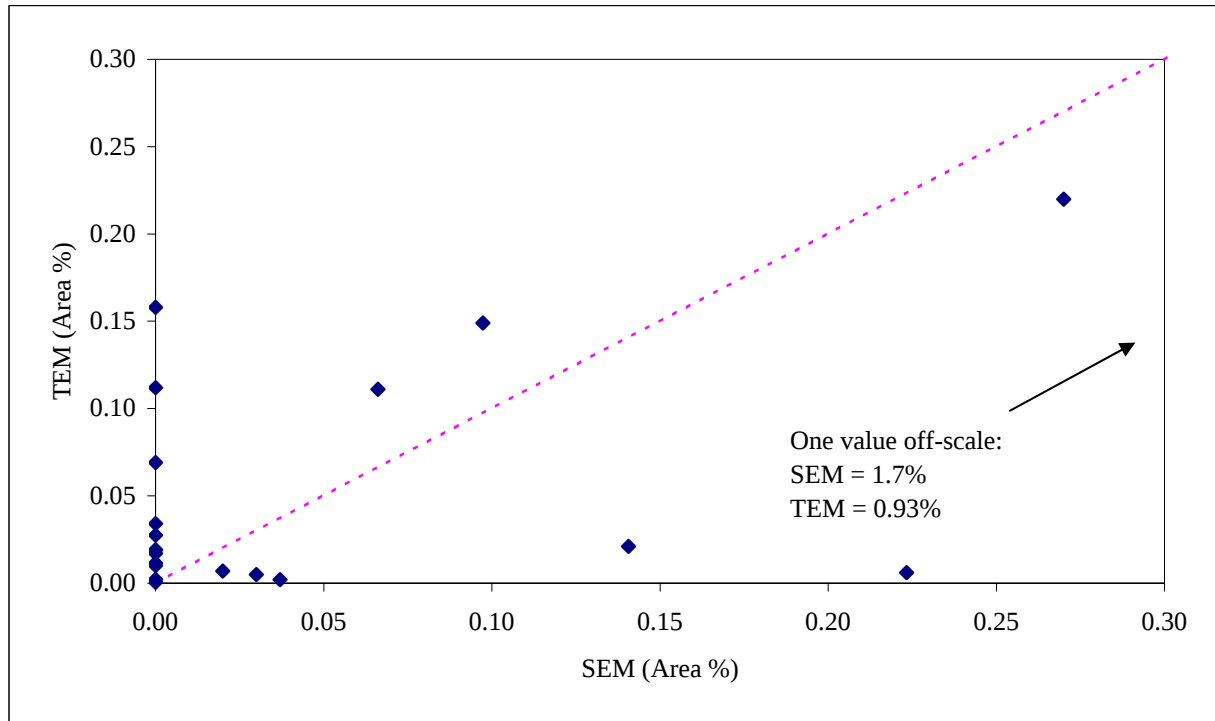
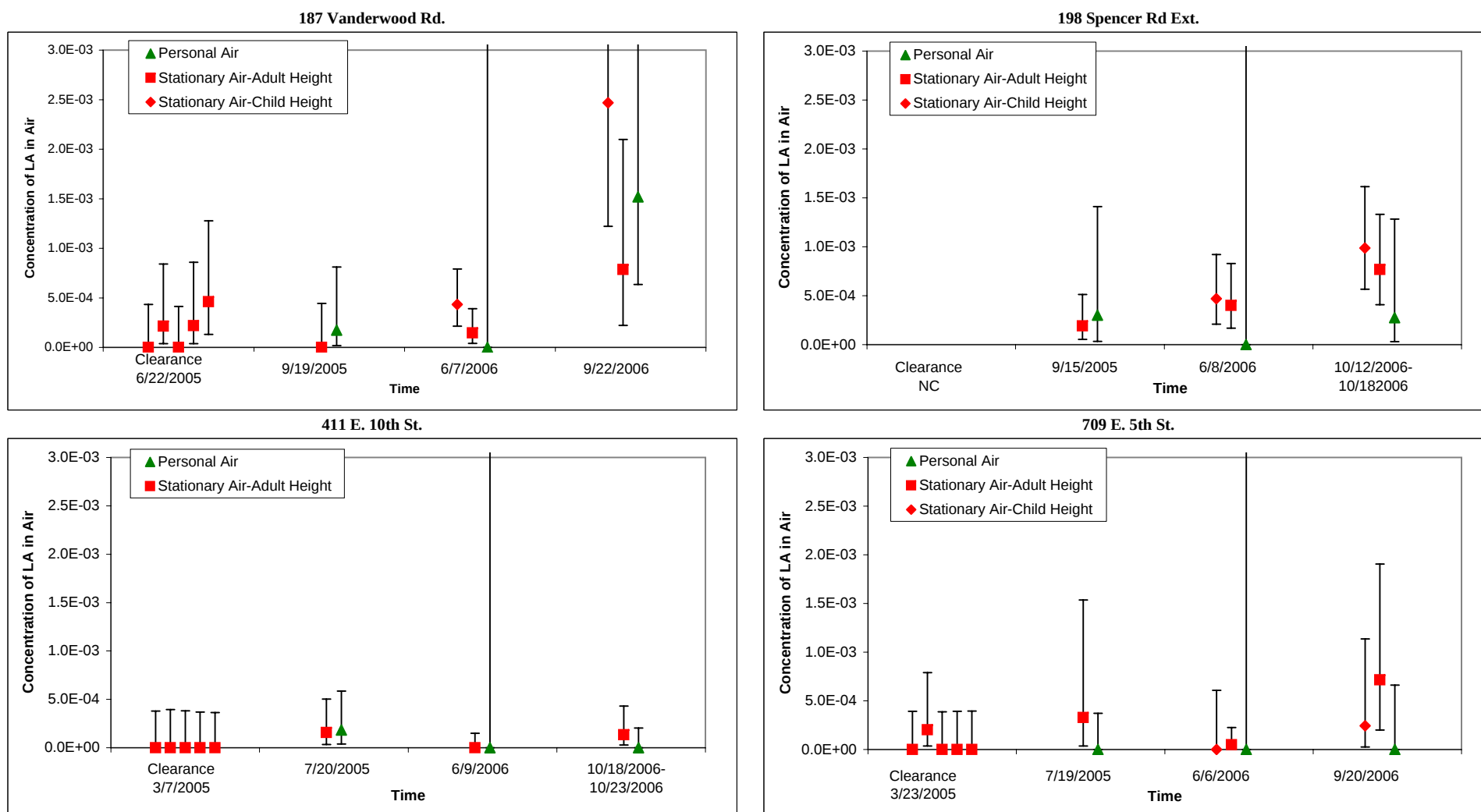
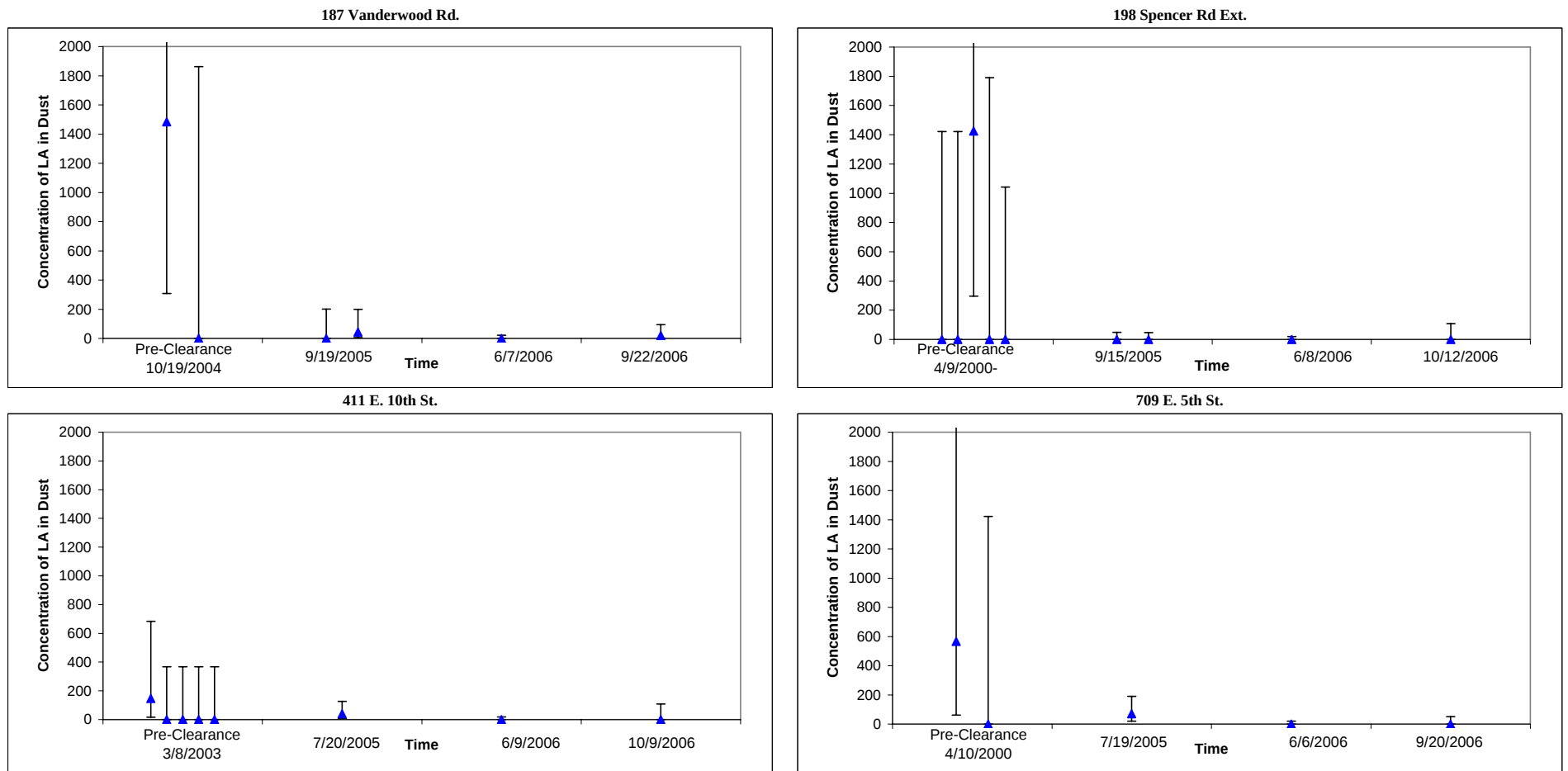


FIGURE 10-1. Time Trends in LA Air Concentrations



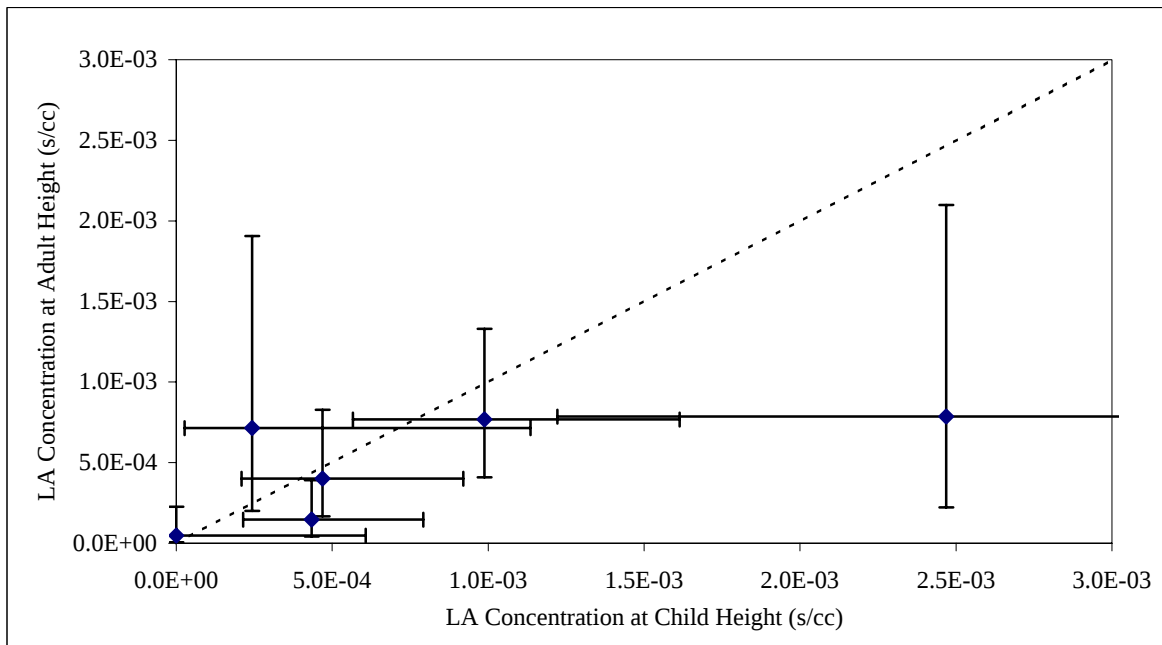
Error bars represent the 95% Poisson Confidence Interval.

FIGURE 10-2. Time Trends in LA Dust Concentrations



Error bars represent the 95% Poisson Confidence Interval.

Figure 10-3. LA Concentration Measured at Adult and Child Height



None of the paired adult and child results are statistically significantly different based on 95% CI.
Error bars represent the 95% Poisson Confidence Interval.

Figure 13-1
Ambient Air
Sampling Locations Stratified by Zone

See Map Legend (attached as page 2) for
description of the unique locations IDs.

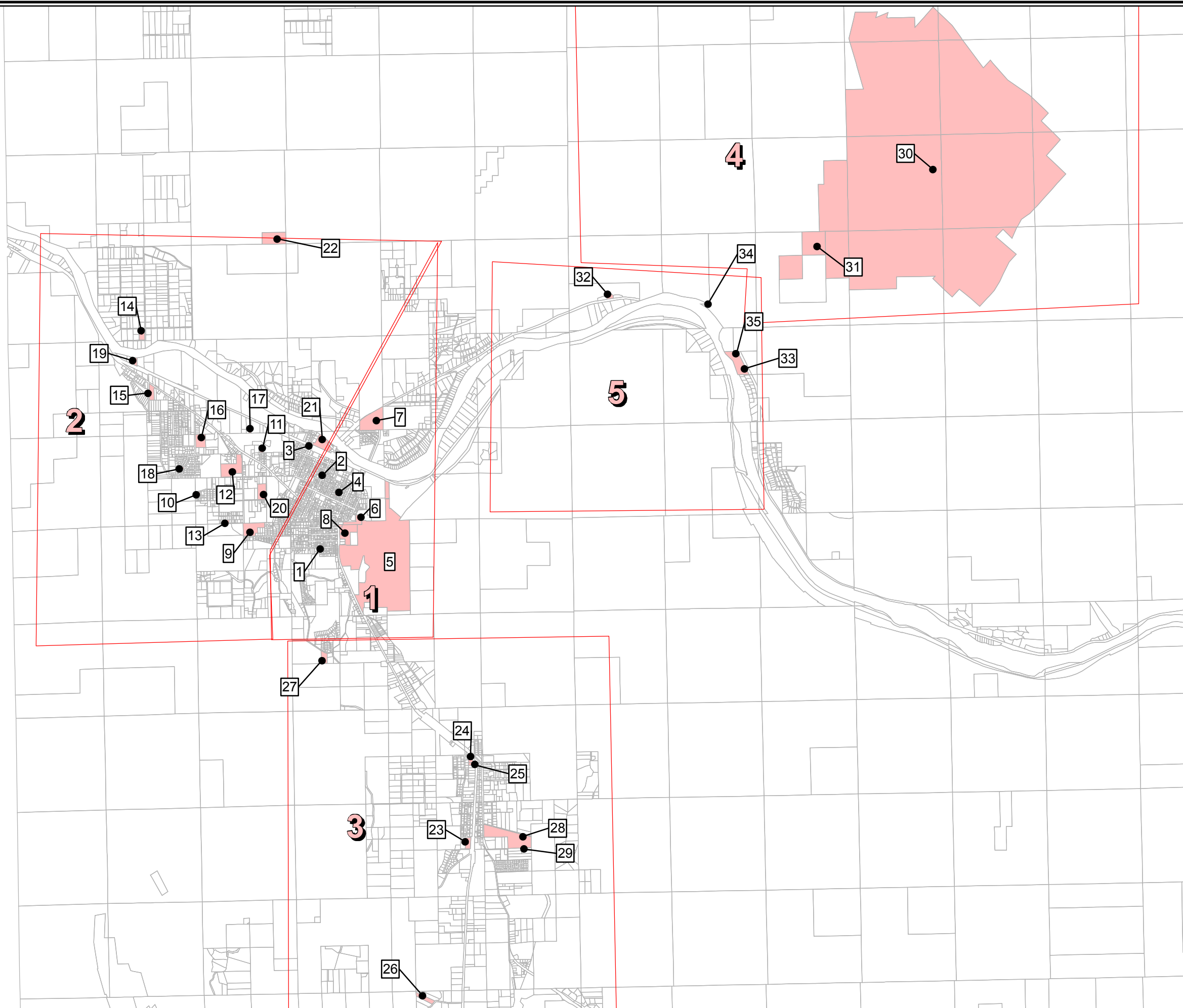
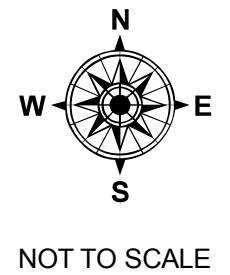
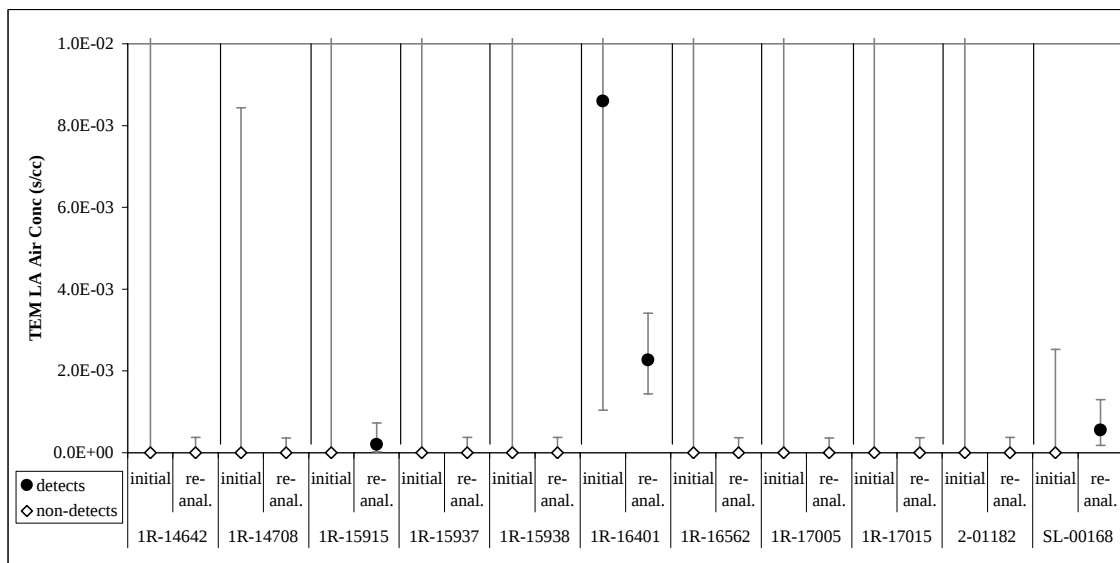
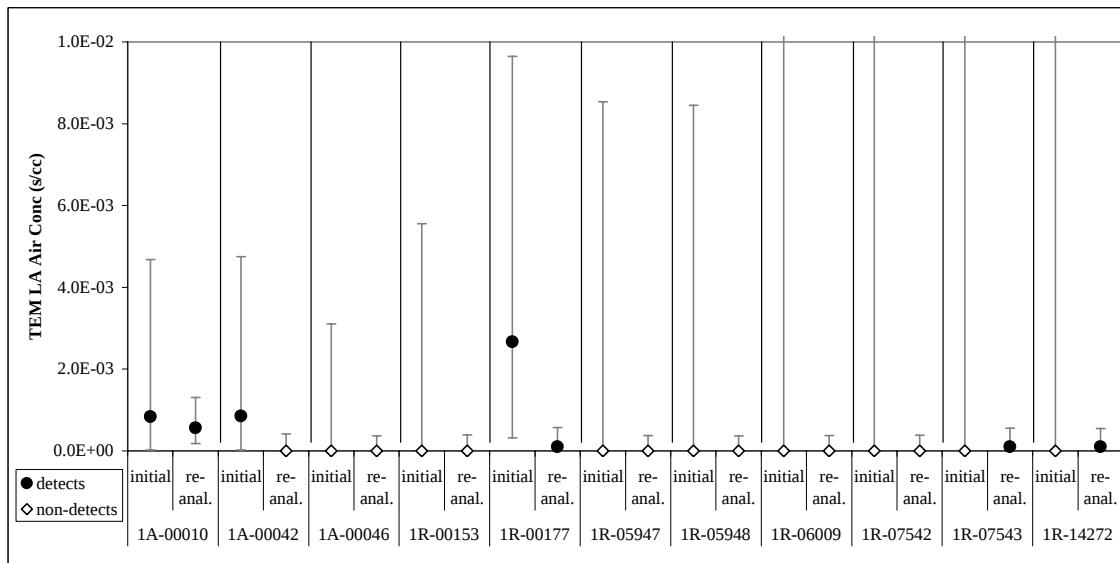
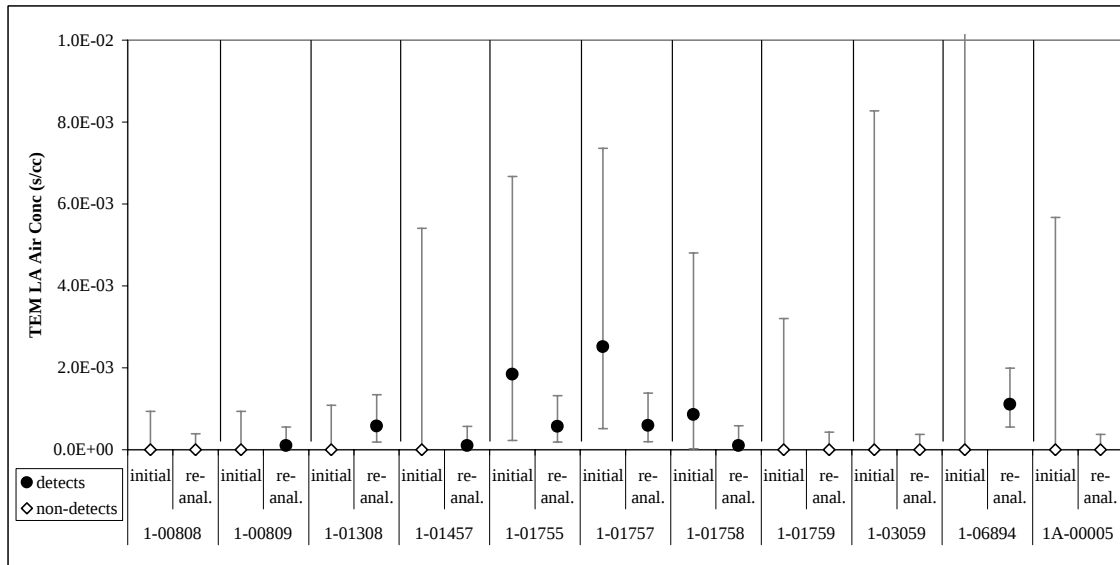


Figure 13-1. Map Legend

Zone	Map Identifier	Location Description	Number of Samples		
			2000	2001	2002
1	1	1417 Louisiana Ave			4
	2	418 Mineral Ave - County Annex Building		30	15
	3	510 W. 1st St			8
	4	605 Utah Ave			4
	5	875 Highway 2 S - Stimson Lumber			10
	6	952 E. Spruce St - Fitness Center	27		
	7	Champion Haul Rd			4
	8	MillWork West	6		
2	9	101 Ski Rd - Libby Middle School		12	
	10	110 Montgomery Dr			1
	11	123 Hamann Ave			4
	12	150 Education Way - Libby High School		12	
	13	154 Ski Rd			4
	14	156 S. Central Rd			4
	15	2113 Highway 2 W			4
	16	247 Indian Head Rd - Plummer Elementary School	27	4	4
	17	2608 W. 2nd St Ext			4
	18	319 Norman Ave			4
	19	500 Jay Effar Rd			4
	20	Armory		1	
	21	Export Plant	3		
	22	Lincoln County Landfill		4	4
3	23	34 Bowker St #13			4
	24	3496 Highway 2 S		6	
	25	3504 Highway 2 S			8
	26	781 Terrace View Rd			4
	27	819 Cabinet Heights Rd		4	
	28	899 Farm to Market Rd - McGrade Elementary	16		
	29	Jerry Dean Park, McGrade School	11		
4	30	Mine	96		
	31	Rainy Creek Rd	23		
5	32	4241 Highway 37 N			4
	33	KDC Flyway			5
	34	Rainy Creek Bank			6
	35	Screening Plant & Flyway	3		6

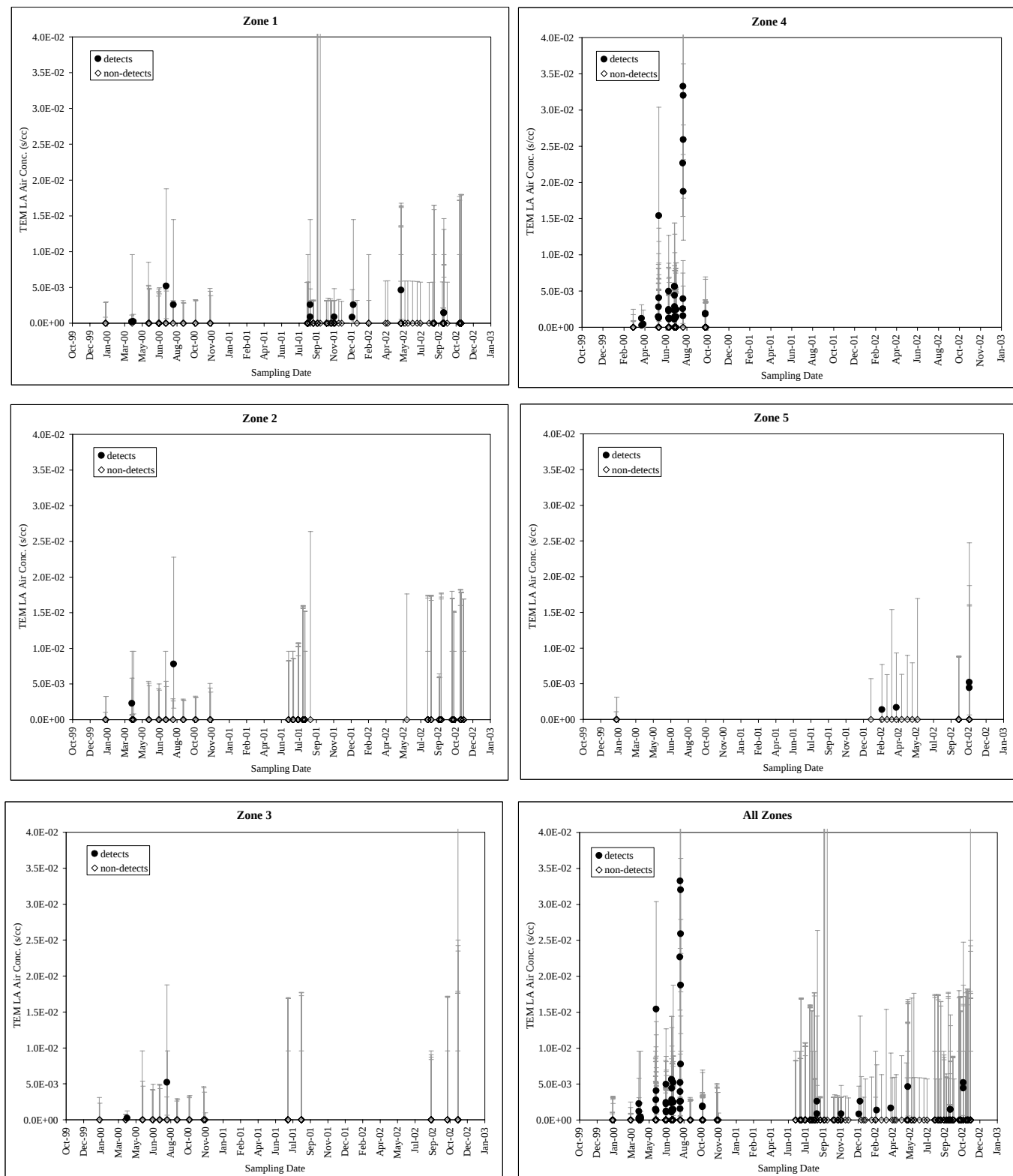
Total: 212 73 119

FIGURE 13-2. COMPARISON OF INTIAL AND RE-ANALYSIS RESULTS



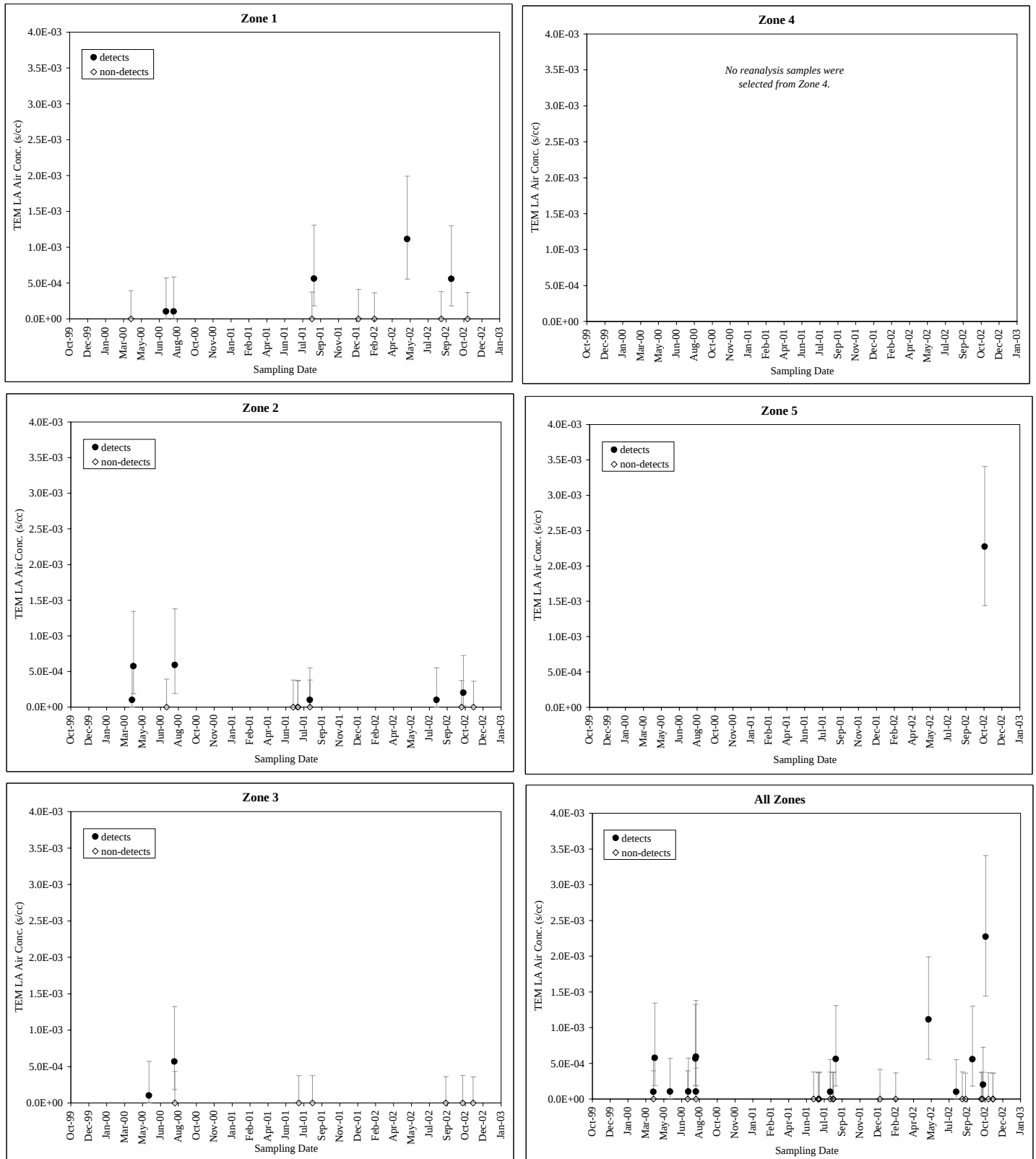
Error bars represent the 95% Poisson confidence interval.

FIGURE 13-3
CONCENTRATION OF LA IN 404 AMBIENT AIR SAMPLES FROM LIBBY
INITIAL ANALYSES



Error bars represent the 95% Poisson confidence interval.

FIGURE 13-4
CONCENTRATION OF LA IN 33 AMBIENT AIR SAMPLES FROM LIBBY
RE-ANALYSIS AT IMPROVED SENSITIVITY



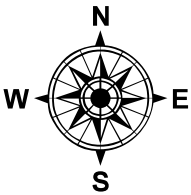
Error bars represent the 95% Poisson confidence interval.

Figure 14-1
Perimeter Air Sampling Locations
Selected for Re-Analysis

Map Label	Property Address
1-A (6)	312 Main Ave
2-A (31)	341 Parmenter Dr
3-A (23)	3647 Highway 2 S
4-A (3)	507 E. Lincoln Blvd
5-A (1)	610 Michigan Ave
6-B (25)	123 Hamann Ave
7-B (19)	1573 Kootenai River Rd
8-B (44)	319 Norman Ave
9-B (16)	500 Jay Effar Rd
10-B (20)	781 Terrace View Rd
11-C (29)	102 Mineral Ave - Second Hand Store
12-C (79)	2293 Kootenai River Rd
13-C (20)	KDC Flyway
14-C (119)	Riverside Park
15-D (47)	101 Ski Rd - Libby Middle School
16-D (239)	150 Education Way - Libby High School
17-D (57)	247 Indian Head Rd - Plummer Elementary School
18-D (236)	303 W. Thomas St - former Export Plant
19-D (194)	BNSF Libby Railway
20-D (13)	Champion Haul Rd

Map Label=Random ID-Group (N Perimeter Samples)

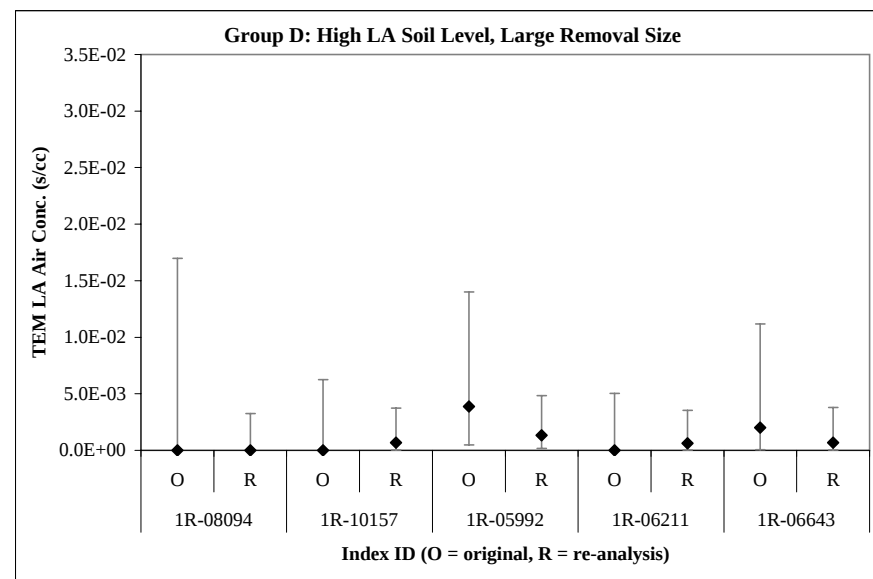
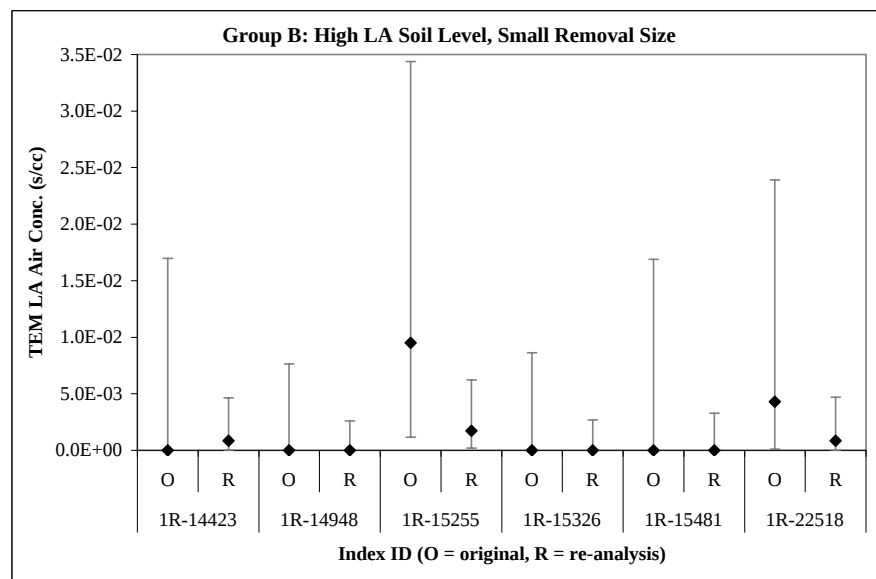
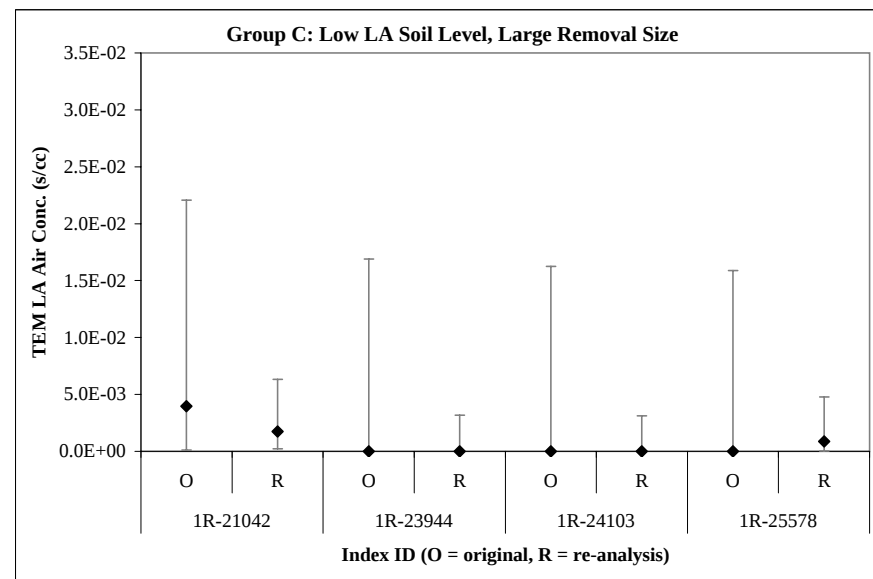
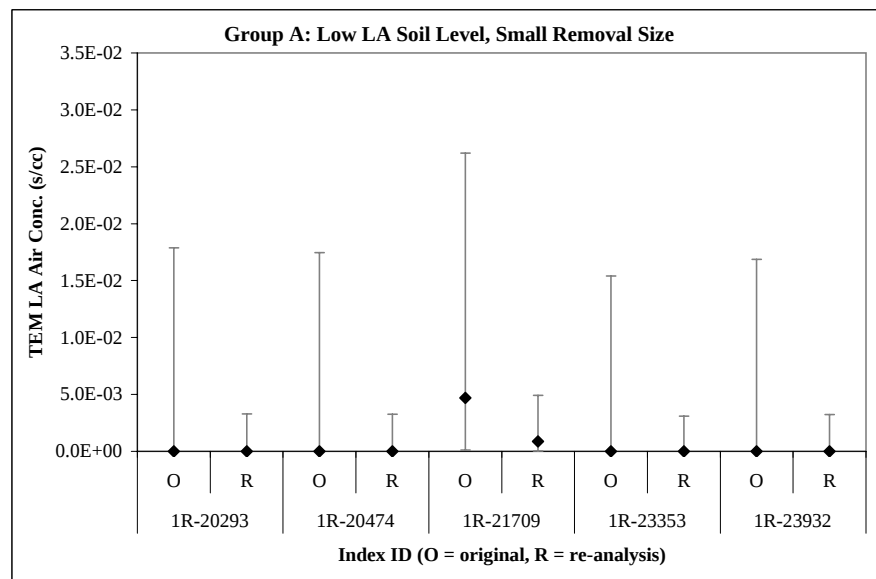
Group A: Low LA Soil Level (< 1%), Small Removal Size (< 1000 cy)
Group B: High LA Soil Level (≥ 1%), Small Removal Size (< 1000 cy)
Group C: Low LA Soil Level (< 1%), Large Removal Size (≥ 1000 cy)
Group D: High LA Soil Level (≥ 1%), Large Removal Size (≥ 1000 cy)



NOT TO SCALE



FIGURE 14-2
TEM RESULTS FOR PERIMETER AIR SAMPLES THAT WERE RE-ANALYZED



Error bars represent the 95% Poisson confidence interval.