

**Table 2-1. Summary of SQAPP Analysis Verification**

**Panel A: TEM Analyses**

SQAPP Task	N Analyses Performed	N Analyses Selected for Verification	N Analyses Verified (a)	% Verified
2	166	155	133	80%
3	197	20	20	10%
6-9	44	44	44	100%
10	13	4	4	31%
11	9	5	5	56%
12 (ambient)	37	37	36	97%
12 (perimeter)	26	26	24	92%
ALL	492	291	266	54%

**Panel B: PLM Analyses**

SQAPP Task	N Analyses Performed	N Analyses Selected for Verification	N Analyses Verified (a)	% Verified
1	37	5	5	14%
3	38	7	8	21%
ALL	75	12	13	17%

(a) Some of the analyses selected for verification could not be verified because the laboratory benchsheets were not available for review.

**Table 3-1  
Relationship Between Number of Structures  
Observed and Relative Uncertainty**

Number of Structures Observed (N)	2.5% Lower Bound N (LB)	97.5% Upper Bound N (UB)	95% Confidence Interval Range (CI) [UB-LB]	Relative Uncertainty [CI/N]
0	0.00	2.51	2.51	+Infinity
1	0.11	4.67	4.57	457%
2	0.42	6.42	6.00	300%
3	0.84	8.01	7.16	239%
5	1.91	10.96	9.05	181%
10	5.14	17.74	12.60	126%
20	12.61	30.28	17.67	88%
50	37.54	65.35	27.81	56%
75	59.44	93.46	34.02	45%
100	81.82	121.08	39.26	39%

2.5% LB =  $0.5 \cdot \text{CHIINV}[0.975, (2 \cdot N+1)]$

97.5% UB =  $0.5 \cdot \text{CHIINV}[0.025, (2 \cdot N+1)]$

**TABLE 4-1  
SQAPP Field Duplicate/Replicate Results**

**PANEL A: SURFACE SOIL**

Original Index ID	Duplicate Index ID	SQAPP Task	Sample Date	Sample Depth (inches)	Location Description	PLM-VE Results		Concordance
						Original	Field Duplicate	
						LA MF (%)	LA MF (%)	
SQ-00148	SQ-00149	1	27-Jun-05	0-6	Back, front, side yard	ND	ND	Concordant
SQ-00160	SQ-00241	1	29-Jun-05	0-6	Back, front, side yard	ND	Trace	Weakly Discordant
SQ-00317	SQ-00319	3B_mowing	15-Jul-05	0-2	Front yard	ND	ND	Concordant

**PANEL B: STATIONARY AIR**

Original Index ID	Duplicate Index ID	SQAPP Task	Sample Date	Sample Location Description	TEM ISO 10312 Results								Poisson Rate Comparison (95% CI)
					Original				Field Replicate				
					Prep Method	Sensitivity (cc) <sup>-1</sup>	Count	Conc (s/cc)	Prep Method	Sensitivity (cc) <sup>-1</sup>	Count	Conc (s/cc)	
SQ-00096	SQ-00097	3B_playing	22-Jun-05	Outdoor	Indirect	0.036	1	3.6E-02	Indirect	0.036	1	3.6E-02	Concentrations are not different
SQ-00140	SQ-00181	2	27-Jun-05	Indoor	Direct	0.000059	4	2.4E-04	Direct	0.000061	9	5.5E-04	Concentrations are not different
SQ-00290	SQ-00291	3B_raking	08-Jul-05	Outdoor	<i>not analyzed</i>				<i>not analyzed</i>				
SQ-00336	SQ-00337	3B_mowing	12-Jul-05	Outdoor	Direct	0.00099	0	0.0E+00	Direct	0.00097	0	0	Concentrations are not different
SQ-00357	SQ-00358	3B_raking	11-Jul-05	Outdoor	Direct	<i>overloaded (a)</i>			Direct	<i>overloaded (a)</i>			
SQ-00419	SQ-00420	3B_mowing	13-Jul-05	Outdoor	Direct	0.0011	0	0	Direct	0.0011	0	0	Concentrations are not different
SQ-00458	SQ-00459	3B_mowing	16-Jul-05	Outdoor	Direct	0.00098	0	0	Direct	0.0010	0	0	Concentrations are not different
SQ-00475	SQ-00476	3B_mowing	15-Jul-05	Outdoor	Indirect	0.0033	0	0	Indirect	0.0021	5	1.1E-02	Concentrations are not different
SQ-00489	SQ-00490	3B_playing	14-Jul-05	Outdoor	Direct	0.00086	9	7.7E-03	Direct	0.0010	15	1.6E-02	Concentrations are not different
SQ-00592	SQ-00593	3B_mowing	19-Jul-05	Outdoor	Direct	0.00099	0	0	Direct	0.00098	0	0	Concentrations are not different

(a) sample was rejected due to heavy unstable debris

**TABLE 4-2  
Concordance Results for Recount Analyses of Grid Openings with One or More Asbestos Structures Observed**

Analysis Summary								GO-Specific Evaluation				
Recount Type	Index ID	Medium	Prep	Analysis Method	Laboratory		Grid	GO	LA Structure Count			
					Original	Recount			Original	Recount	Difference	Concordant?
Recount Same	SQ-00176	Air	Direct	ISO	Westmont	Westmont	1	M13	1	1	0	Yes
							1	L11	1	1	0	Yes
							2	B7	1	1	0	Yes
							2	G5	1	1	0	Yes
							2	E15	1	1	0	Yes
	SQ-00359	Dust	Indirect	ASTM	RESI	RESI	A	G3-4	0	0	0	Yes
						A	E3-3	0	0	0	Yes	
Verified Analysis	SQ-00265	Air	Direct	ISO	Hygeia	Hygeia	C5	F6-1	1	1	0	Yes
	SQ-00482	Air	Direct	ISO	MAS	MAS	B8	G4	1	1	0	Yes
	SQ-00489	Air	Direct	ISO	MAS	MAS	A2	B9	3	3	0	Yes
Interlab	SQ-00208	Air	Indirect	ISO	Hygeia	Batta	A9	H4-3	3	3	0	Yes
							A9	H4-2	4	5	-1	No
							A9	H4-1	2	3	-1	No
							A9	E3-3	4	4	0	Yes
							A9	F3-3	4	2	2	No
							A10	F3-1	1	1	0	Yes
							A10	C4-2	4	4	0	Yes
							A10	F4-1	2	2	0	Yes
							A10	F4-4	3	3	0	Yes
	SQ-00321	Air	Indirect	ISO	Batta	MAS	3	B6	1	0	1	No
							3	E1	2	1	1	No
							3	E8	1	1	0	Yes
							3	G7	2	2	0	Yes
							3	I1	3	5	-2	No
							3	I3	0	1	-1	No
							3	I9	1	1	0	Yes
							3	J8	2	2	0	Yes
							4	A7	1	0	1	No
							4	B10	1	1	0	Yes
							4	C8	1	1	0	Yes
4							D5	0	1	-1	No	
4	D10	1	1	0	Yes							

**TABLE 4-3**  
**Detailed Structure Concordance Results for Recount Analyses with One or More Asbestos Structures Observed**

Analysis Summary							Structure-Specific Evaluation																			
Recount Type	Index ID	Medium	Prep	Analysis Method	Laboratory		Grid	GO	Original					Recount					Concordant?							
					Original	Recount			Mineral Class	Structure Type	Length (um)	Width (um)	Aspect Ratio	Mineral Class	Structure Type	Length (um)	Width (um)	Aspect Ratio	Mineral Class	Length	Width					
Recount Same	SQ-00176	Air	Direct	ISO	Westmont	Westmont	1	M13	LA	F	16.0	0.6	26.7	LA	F	16.0	0.6	26.7	Yes	Yes	Yes					
							1	L11	LA	F	11.0	1.3	8.8	LA	F	11.0	1.3	8.8	Yes	Yes	Yes					
							2	B7	LA	MF	3.5	0.5	7.0	LA	MF	3.5	0.5	7.0	Yes	Yes	Yes					
							2	G5	LA	F	20.0	1.4	14.8	LA	F	20.0	1.4	14.8	Yes	Yes	Yes					
							2	E15	LA	MF	11.0	0.5	22.0	LA	MF	11.0	0.5	22.0	Yes	Yes	Yes					
	SQ-00359	Dust	Indirect	ASTM	RESI	RESI	A	G3-4	C	F	2.0	0.1	35.0	C	F	2.0	0.1	35.0	Yes	Yes	Yes					
						A	E3-3	C	M	4.5	0.1	53.3	C	M	4.5	0.1	53.3	Yes	Yes	Yes						
Verified Analysis	SQ-00265	Air	Direct	ISO	Hygeia	Hygeia	C5	F6-1	LA	F	11.8	1.3	9.0	LA	F	12.1	1.3	9.2	Yes	Yes	Yes					
	SQ-00482	Air	Direct	ISO	MAS	MAS	B8	G4	LA	MF	8.0	0.2	40.0	LA	MF	2.6	0.1	26.0	Yes	No	Yes					
	SQ-00489	Air	Direct	ISO	MAS	MAS	A2	B9	LA	F	7.0	0.2	35.0	LA	F	9.0	0.3	30.0	Yes	No	Yes					
									LA	F	9.2	0.2	46.0	LA	F	10.0	0.3	33.3	Yes	Yes	Yes					
LA									MF	9.5	0.2	47.5	LA	MF	10.0	0.2	50.0	Yes	Yes	Yes						
Interlab	SQ-00208	Air	Indirect	ISO	Hygeia	Batta	A9	H4-3	LA	F	5.7	0.7	7.9	LA	F	5.6	0.7	8.0	Yes	Yes	Yes					
									LA	F	6.1	0.6	10.2	LA	F	6.1	0.6	10.2	Yes	Yes	Yes					
									LA	MF	2.8	0.7	3.9	LA	F	2.9	0.7	4.1	Yes	Yes	Yes					
									A9	H4-2	C	F	4.9	0.1	50.0	C	F	4.9	0.1	61.3	Yes	Yes	Yes			
											LA	F	2.3	0.3	8.8	LA	F	2.3	0.3	7.7	Yes	Yes	Yes			
											LA	MF	3.2	0.4	8.2	LA	MD10	3.1	0.4	7.8	Yes	Yes	Yes			
							LA	F			2.1	0.2	12.8	LA	MD10	3.1	0.3	10.3	Yes	No	Yes					
							no matching structure identified					no matching structure identified					LA	MD11	1.2	0.3	4.0	--	--	--		
							no matching structure identified					no matching structure identified					LA	F	1.8	0.6	12.8	--	--	--		
							A9	H4-1	C	F	1.0	0.1	15.0	C	MD10	0.9	0.1	15.0	Yes	Yes	Yes					
									LA	F	14.5	0.8	18.3	LA	F	15.0	0.7	21.4	Yes	Yes	Yes					
									LA	F	3.7	0.7	5.6	LA	F	3.5	0.6	5.8	Yes	Yes	Yes					
									no matching structure identified					no matching structure identified					LA	B	7.7	3.0	2.6	--	--	--
									no matching structure identified					no matching structure identified					C	MF	2.0	0.1	31.0	--	--	--
									no matching structure identified					no matching structure identified								--	--	--		
							A9	E3-3	LA	MF	9.5	0.2	58.0	LA	MF	9.0	0.1	75.0	Yes	Yes	Yes					
									LA	MF	5.1	0.3	19.5	LA	MD11	5.1	0.2	25.5	Yes	Yes	Yes					
									LA	MF	3.5	0.5	6.6	LA	MF	3.7	0.3	14.8	Yes	Yes	Yes					
									LA	MF	4.0	0.2	17.4	LA	F	5.0	0.6	8.3	Yes	No	Yes					
							A9	F3-3	LA	MF	5.5	0.5	11.1	LA	MD11	5.5	0.4	13.8	Yes	Yes	Yes					
LA	MF	3.4	0.4	8.0	LA	MD10			3.2	0.4	8.0	Yes	Yes	Yes												
LA	MF	2.6	0.2	16.0	no matching structure identified					--	--	--														
LA	F	16.4	0.9	19.2	no matching structure identified					--	--	--														

**TABLE 4-3**  
**Detailed Structure Concordance Results for Recount Analyses with One or More Asbestos Structures Observed**

Analysis Summary						Structure-Specific Evaluation																					
Recount Type	Index ID	Medium	Prep	Analysis Method	Laboratory		Grid	GO	Original					Recount					Concordant?								
					Original	Recount			Mineral Class	Structure Type	Length (um)	Width (um)	Aspect Ratio	Mineral Class	Structure Type	Length (um)	Width (um)	Aspect Ratio	Mineral Class	Length	Width						
Interlab (cont.)	SQ-00208 (cont.)	Air	Indirect	ISO	Hygeia	Batta	A10	F3-1	C	F	1.4	0.1	21.0	no matching structure identified					--	--	--						
									C	F	1.5	0.1	22.5	no matching structure identified					--	--	--						
									C	F	0.9	0.2	5.6	no matching structure identified					--	--	--						
															LA	MF	1.9	0.2	11.6	LA	MD10	2.0	0.2	13.3	Yes	Yes	Yes
							A10	C4-2	LA	F	4.1	0.5	8.3	LA	F	3.7	0.4	10.6	Yes	Yes	Yes						
									LA	F	6.3	0.8	7.9	LA	MD10	6.0	0.3	24.0	Yes	Yes	Yes						
									LA	F	4.2	0.6	7.5	LA	F	4.0	0.4	10.0	Yes	Yes	Yes						
									LA	F	4.4	0.1	33.5	LA	F	4.0	0.2	26.7	Yes	Yes	Yes						
							A10	F4-1	C	F	7.0	0.1	106.0	C	MD11	6.7	0.1	95.7	Yes	Yes	Yes						
									LA	MF	1.1	0.1	8.0	LA	MD10	4.6	0.1	46.0	Yes	No	Yes						
									LA	F	1.1	0.2	6.6	LA	F	1.5	0.1	15.0	Yes	Yes	Yes						
							A10	F4-4	LA	F	1.6	0.2	10.0	LA	F	1.6	0.2	10.0	--	--	--						
	LA	F	19.7	0.5	42.9	LA			F	19.7	0.5	42.9	--	--	--												
	LA	MF	2.0	0.2	8.6	LA			MD11	6.0	0.3	24.0	Yes	No	Yes												
	SQ-00321	Air	Indirect	ISO	Batta	MAS	3	B6	LA	F	7.9	0.4	19.8	no matching structure identified					--	--	--						
									LA	F	11.4	0.5	22.8	no matching structure identified					--	--	--						
															LA	F	7.8	0.25	31.2	LA	F	7.7	0.2	38.5	Yes	Yes	Yes
							3	E8	LA	B	44	1.2	36.7	LA	F	45	1.7	26.5	Yes	Yes	Yes						
									LA	F	6.2	0.65	9.5	LA	F	7.2	0.6	12.0	Yes	No	Yes						
															LA	F	17.8	0.5	35.6	LA	MF	18.6	0.4	46.5	Yes	Yes	Yes
							3	I1	LA	MD10	4.6	0.2	23.0	LA	MF	6	0.4	15.0	Yes	No	Yes						
									LA	F	5	1.2	4.2	LA	F	5.4	1.1	4.9	Yes	Yes	Yes						
									LA	MD11	18.7	1	18.7	LA	MF	15	1.4	10.7	Yes	No	Yes						
															no matching structure identified					LA	F	5	0.6	8.3	--	--	--
															no matching structure identified					LA	MF	2.4	0.2	12.0	--	--	--
							3	I3	LA	MD	11	0.7	15.7	LA	MF	6.4	0.7	9.1	Yes	No	Yes						
									LA	F	9.8	0.6	16.3	LA	F	10	0.6	16.7	Yes	Yes	Yes						
							3	J8	LA	MD11	8.5	0.65	13.1	LA	MF	9	0.7	12.9	Yes	Yes	Yes						
LA									F	1.1	0.08	13.8	LA	F	0.9	0.15	6.0	Yes	Yes	Yes							
4							A7	LA	F	10.6	0.5	21.2	no matching structure identified					--	--	--							
	LA	MD10	4.8	0.18	26.7	LA		MF	4.7	0.2	23.5	Yes	Yes	Yes													
	LA	F	8.5	0.12	70.8	LA		F	9	0.2	45.0	Yes	Yes	Yes													
	LA	B	21	0.95	22.1	LA		MF	22	1.2	18.3	Yes	Yes	Yes													
	LA	F	7.8	0.45	17.3	LA		F	8	0.5	16.0	Yes	Yes	Yes													

52/52    42/52    52/52  
100%    81%    100%

**TABLE 4-4**  
**Repreparation Results by TEM**

Index ID	SQAPP Task	Medium	Matrix	Analysis Method	Prep Method	Original				Repreparation				Poisson Rate Comparison (95% CI)
						Sensitivity	Units	Count	Conc (s/cc) Units	Sensitivity	Units	Count	Conc (s/cc) Units	
SQ-00009	10	Dust	HT	TEM-ISO10312	Indirect	198	1/cm <sup>2</sup>	8	1.6E+03 s/cm <sup>2</sup>	198	1/cm <sup>2</sup>	8	1.6E+03 s/cm <sup>2</sup>	Concentrations are not different
SQ-00100	2	Dust	HS & HT	ASTM	Indirect	337	1/cm <sup>2</sup>	3	1.0E+03 s/cm <sup>2</sup>	305	1/cm <sup>2</sup>	0	0 s/cm <sup>2</sup>	Concentrations are not different
SQ-00199	3B_raking	Air, Stationary	Outdoor	TEM-ISO10312	Direct	0.00099	(cc) <sup>-1</sup>	2	2.0E-03 s/cc	0.00099	(cc) <sup>-1</sup>	1	9.9E-04 s/cc	Concentrations are not different
SQ-00208	3B_mowing	Air, Personal	Outdoor	TEM-ISO10312	Indirect	0.0044	(cc) <sup>-1</sup>	51	2.3E-01 s/cc	0.0059	(cc) <sup>-1</sup>	52	3.1E-01 s/cc	Concentrations are not different
SQ-00321	3B_playing	Air, Stationary	Outdoor	TEM-ISO10312	Indirect	0.011	(cc) <sup>-1</sup>	63	6.9E-01 s/cc	0.0034	(cc) <sup>-1</sup>	52	1.8E-01 s/cc	Original > Reprep

HT = High traffic area  
HS = Horizontal surface

**TABLE 4-5  
Laboratory Duplicate PLM-VE Results**

Index ID	SQAPP Task	Sample Date	Sample QC Type	Sample Depth (inches)	Location Description	PLM-VE Results		Concordance
						Original	Lab Duplicate	
						LA MF (%)	LA MF (%)	
SQ-00063	3B_mowing	22-Jun-05	Field Sample	0-2	Grids 16, 17, & 18	<1%	<1%	Concordant
SQ-00069	3B_playing	06-Jul-05	Field Sample	0-2	Horse pasture	<1%	<1%	Concordant
SQ-00150	1	27-Jun-05	Equipment Blank	--	Blank	ND	ND	Concordant
SQ-00241	1	29-Jun-05	Field Duplicate	0-6	Back, front, side yard	Trace	Trace	Concordant
SQ-00256	1	12-Jul-05	Field Sample	0-1	Back, front, side yard	Trace	Trace	Concordant
SQ-00306	3B_mowing	11-Jul-05	Field Sample	0-2	Back yard	Trace	Trace	Concordant
SQ-00315	3B_mowing	12-Jul-05	Field Sample	0-2	Forested area	Trace	Trace	Concordant
SQ-00320	3C	16-Jul-05	Field Sample	--	Stockpile	Trace	Trace	Concordant
SQ-00523	1	13-Jul-05	Field Sample	0-6	Back, front, side yard	Trace	Trace	Concordant
SQ-00599	1	26-Jul-05	Field Sample	0-6	Back, front, side yard	ND	ND	Concordant
SQ-00743	3B_mowing	16-Jul-05	Field Sample	0-2	Back yard	Trace	Trace	Concordant

**TABLE 5-1. Sample Information**

Location	Number of Vectors	Vegetative Cover Condition	Yard Samples		SUA Samples		High Volume Dust Samples (ft <sup>2</sup> sampled)
			# of Samples	# of Subsamples	# of Samples	# of Subsamples	
2098 Farm to Market Rd	3	Good	1	13	2 <sup>(b)</sup>	10	9
12 Granite Ave	2	Good	1	10	1	10	9
214 Colorado Ave	2	Good	1	10	1	8	9
1004 Wisconsin Ave	4	Good	1	12	No SUAs		9
500 Jay Effar Rd	2	Poor	2 <sup>(a)</sup>	10	SUAs not sampled <sup>(e)</sup>		9
2608 W. 2 <sup>nd</sup> St Ext	2	Good	1	10	2 <sup>(b)</sup>	12	9
791 Flower Creek Rd	6	Good	1	10	1	7	9
250 Farm to Market Rd	9	Good	1	10	1	7	9
224 Forest Ave	1	Good	1	10	1	10	20 <sup>(c)</sup>
290 Granite Ave	1	Poor	1	15	1	10	12 <sup>(c)</sup>
393 Farm to Market Rd	6	Poor	1	10	No SUAs		12 <sup>(c)</sup>
35 McKay St	4	Good	1	10	1	10	9
1204 Nevada Ave	0 (vacant)	Poor	1	10	1	10	9
408 Dakota Ave	0 (vacant)	Poor	1	10	1	10	8 <sup>(d)</sup>
222 W. Larch St	2	Poor	1	10	1	10	9
3646 Highway 2 S	4	Poor	1	10	No SUAs		9
275 Dawson St	8	Good	2 <sup>(a)</sup>	15	No SUAs		9
1026 Louisiana Ave	6	Poor	1	10	1	10	9
113 Crest St	5	Poor	1	10	1	10	18 <sup>(c)</sup>
714 E. 6 <sup>th</sup> St	4	Poor	1	10	1	10	9

SUA = Specific-use area soil

ft<sup>2</sup> = square feet

- (a) Two yard samples were collected due to large size of the yard
- (b) One field sample and one field duplicate
- (c) Larger sampling area was needed to get required sample amount
- (d) Smaller sampling area was needed to get required sample amount
- (e) All SUAs covered in wood mulch

**TABLE 5-2. Data Summary**

Analyte	Yard or Property Soil				SUA Soil				Combined Yard-SUA Soil				Indoor House Dust			
	N	DF	Mean*	SD	N	DF	Mean*	SD	N	DF	Mean*	SD	N	DF	Mean*	SD
Antimony	20	10%	0.65	0.40	15	7%	0.66	0.40	20	9%	0.64	0.36	20	10%	3.7	3.2
Arsenic	20	100%	6.0	1.1	15	100%	5.7	1.8	20	100%	5.8	1.1	20	100%	8.2	11.4
Beryllium	20	10%	0.11	0.04	15	13%	0.13	0.06	20	11%	0.12	0.05	20	0%	0.28	0.11
Cadmium	20	20%	0.30	0.23	15	33%	0.38	0.29	20	26%	0.34	0.23	20	40%	1.2	0.84
Chromium	20	100%	15.0	9.1	15	100%	27.4	43.8	20	100%	19.8	23.0	20	100%	21.6	15.5
Copper	20	100%	19.2	9.4	15	100%	23.3	17.8	20	100%	20.9	11.0	20	100%	56.8	31.3
Lead	20	100%	41.0	91.9	15	100%	37.6	54.1	20	100%	37.9	66.7	20	100%	61.0	59.3
Nickel	20	100%	9.9	1.7	15	100%	11.8	6.3	20	100%	10.6	3.4	20	100%	16.9	15.5
Selenium	20	0%	0.35	0.09	15	7%	0.45	0.38	20	3%	0.39	0.17	20	0%	1.1	0.45
Silver	20	0%	0.20	0.006	15	0%	0.20	0.013	20	0%	0.20	0.009	20	5%	0.62	0.31
Thallium	20	0%	0.20	0.006	15	0%	0.20	0.013	20	0%	0.20	0.009	20	0%	0.57	0.23
Zinc	20	100%	88.2	78.0	15	100%	115.8	98.7	20	100%	98.6	77.3	20	100%	312.5	248.4

\*Concentration Units = mg/kg

SUA = Specific-use area soil

Combined Yard-SUA Soil = Average of yard/property and SUA soil samples

N = Number of sample locations

DF = Detection frequency

SD = Standard deviation

**TABLE 5-3. Yard Soil vs. SUA Soil**

Analyte	p-Value*	Different?
Arsenic	0.524	No
Chromium	0.454	No
Copper	0.424	No
Lead	0.454	No
Nickel	0.358	No
Zinc	0.073	No

\*All failed normality test; p-values are from Wilcoxon signed rank test.

**TABLE 5-4. Ksd Results**

Analyte	All Data				Outliers Excluded				
	N	K <sub>sd</sub> (g soil/ cm <sup>2</sup> )			N	K <sub>sd</sub> (g soil/ cm <sup>2</sup> )			
		Mean	SD	95 <sup>th</sup> Percentile		Mean	SD	95 <sup>th</sup> Percentile	% Excluded
Arsenic	20	0.0015	0.0018	0.0050	18	0.0011	0.0014	0.0042	10%
Chromium	20	0.0018	0.0021	0.0054	17	0.0016	0.0020	0.0053	15%
Copper	20	0.0034	0.0045	0.0100	9	0.0028	0.0029	0.0076	55%
Lead	20	0.0023	0.0025	0.0077	14	0.0024	0.0025	0.0072	30%
Nickel	20	0.0017	0.0018	0.0046	19	0.0017	0.0018	0.0047	5%
Zinc	20	0.0044	0.0072	0.0125	8	0.0039	0.0035	0.0095	60%
<b>All</b>	<b>120</b>	<b>0.0025</b>	<b>0.0039</b>	<b>0.0077</b>	<b>85</b>	<b>0.0020</b>	<b>0.0023</b>	<b>0.0069</b>	<b>29%</b>

SD = Standard deviation

N = Number of data

Ksd = g soil/cm<sup>2</sup>



**TABLE 6-2**  
**Method 2 - Measured Dust Loading on Surfaces and in Air**

Address	Index ID	Dust Sample Area (cm <sup>2</sup> )	Dust Sample Weight (g)	Dust Loading on Surface (mg/cm <sup>2</sup> )	Visual Observation	RAM Mean Dust in Air (ug/m <sup>3</sup> )
214 Colorado Ave	SQ-00036	8,361	1.4	0.16	Mostly dust; small bundle of light grey fine fibrous material	10.9
1004 Wisconsin Ave	SQ-00040	8,361	4.7	0.56	1/2 dust and 1/2 fibrous material	21.5
500 Jay Effar Rd	SQ-00144	8,361	2.0	0.24	1/2 dust and 1/2 fibrous material	6.6
2608 W. 2nd St Ext	SQ-00146	8,361	7.5	0.90	Mostly dust; very little fine fibrous material; inside bottle appears to be wet; dust stuck to bottle - unable to get out all the material	42.7
224 Forest Ave	SQ-00152	18,581	0.7	0.04	1/2 dust and 1/2 fibrous material	194
2098 Farm to Market Rd	SQ-00243	8,361	5.4	0.64	1/2 dust and 1/2 fibrous material	2.6
12 Granite Ave	SQ-00247	8,361	8.7	1.04	2/3 dust and 1/3 hair ball	12.2
15 Pinewood Ln	SQ-00248	8,361	9.0	1.08	2/3 dust and 1/3 animal hair	--
275 Dawson St	SQ-00251	8,361	20.3	2.42	Mostly dust; some straw and coarse animal hair	18.1
35 McKay St	SQ-00255	8,361	2.9	0.35	Mostly dust and small hair ball	26.9
20 Vicks Ln	SQ-00258	8,361	10.9	1.30	All dust with a few animal hair	142
1016 Idaho Ave	SQ-00259	18,580	0.9	0.05	1/2 dust and 1/2 hair ball; dust stuck to bottle - unable to get out all the material	7.6
842 Cabinet Heights Rd	SQ-00260	8,361	24.5	2.93	All fine dust with a small hair ball	12.6
393 Farm to Market Rd	SQ-00525	11,148	7.6	0.68	1/2 dust and 1/2 hair ball	8.6
1762 Farm to Market Rd	SQ-00530	8,361	8.0	0.96	2/3 dust and 1/3 hair ball	13
2430 Champion Haul Rd	SQ-00531	8,361	2.6	0.31	2/3 dust and 1/3 hair ball	158
815 Minnesota Ave	SQ-00759	8,361	14.7	1.76	1/3 dust and 2/3 animal hair	17.7

-- pump fault, no RAM data available

**TABLE 7-1**

**TASK 3A: Reanalysis of Phase 2, Scenario 4 Samples  
819 Cabinet Heights Rd**

Personal Air

IndexID	Sample Desc.	Sample Date	Air Volume (L)	Analysis IDSeqN	Analysis Method	Prep Method	Analysis Date	GO Size (mm <sup>2</sup> )	GO Counted	EFA (mm <sup>2</sup> )	F-factor	Analysis Sensitivity (1/cc)	Total LA Struc	Air Conc (s/cc)	Pooled Air Conc (s/cc)
2-01187	Rototiller	8/21/2001	95	51984	TEM-AHERA	DIRECT	8/22/2001	0.0129	0	385	1	overloaded			<b>1.7E-01</b>
				13486	TEM-ISO10312	DIRECT	9/10/2001	0.0061	10	385	1	6.6E-02	1	<b>6.6E-02</b>	
				124385	TEM-ISO10312	DIRECT	8/31/2005	0.0058	162	385	1	4.3E-03	<b>40</b>	<b>1.7E-01</b>	
2-01191	Rototiller Asst.	8/21/2001	107	64182	TEM-AHERA	DIRECT	8/22/2001	0.0129	10	385	1	2.8E-02	0	0.0E+00	<b>2.9E-02</b>
				13489	TEM-ISO10312	DIRECT	9/7/2001	0.0061	10	385	1	5.9E-02	0	0.0E+00	
				124386	TEM-ISO10312	DIRECT	8/30/2005	0.0058	163	385	1	3.8E-03	<b>9</b>	<b>3.4E-02</b>	

Garden Soil

Index ID	Sample Desc.	Sample Date	Sample Depth	Analysis IDSeqN	Analysis Method	Analysis Date	Metric	Mineral Class	Result	Bin
1-01398	Garden Plot (G1, G2, G3)	12/9/2000	1-4 in.	23638	PLM-9002	12/13/2000	AF %	LA	ND	A
							AF %	OA	ND	A
							AF %	CHRY	ND	A
				116946	PLM-VE	11/21/2005	MF %	LA	<b>Tr</b>	<b>B1</b>
							AF %	OA	ND	A
							AF %	C	ND	A

**TABLE 7-2  
SQAPP TASK 3B OUTDOOR ABS DATA SUMMARY**

Scenario	Location	Soil Category		TEM Results												Mean RAM Dust Level (ug/m <sup>3</sup> )	
				Personal						Stationary							
		Original Designation	PLM-VE LA Result	Adult			Child			Upwind			Downwind			Upwind	Downwind
				N LA Structures	Sensitivity (1/cc)	Total LA Air Conc. (s/cc)	N LA Structures	Sensitivity (1/cc)	Total LA Air Conc. (s/cc)	N LA Structures	Sensitivity (1/cc)	Total LA Air Conc. (s/cc)	N LA Structures	Sensitivity (1/cc)	Total LA Air Conc. (s/cc)		
Child Playing in Dirt	1024 Montana Ave - Kootenai Valle	A (remed)	A	--	--	--	2	1.0E-03	2.0E-03	0	8.8E-04	0.0E+00	0	1.0E-03	0.0E+00	0.71	2.1
	187 Vanderwood Rd	A (remed)	A	--	--	--	0	1.0E-03	0.0E+00	0	9.9E-04	0.0E+00	0	9.9E-04	0.0E+00	--	2.3
	2098 Farm to Market Rd	A (remed)	A	--	--	--	0	1.1E-03	0.0E+00	0	1.0E-03	0.0E+00	0	1.1E-03	0.0E+00	3.7	5.7
	2608 W. 2nd St Ext	A (remed)	A	--	--	--	0	9.9E-04	0.0E+00	0	1.1E-03	0.0E+00	0	1.1E-03	0.0E+00	0.4	2.6
	271 Mahoney Rd	A (remed)	A	--	--	--	0	9.8E-04	0.0E+00	0	9.5E-04	0.0E+00	0	9.9E-04	0.0E+00	3.3	0.85
	500 Jay Effar Rd	A (remed)	A	--	--	--	0	7.7E-04	0.0E+00	0	9.8E-04	0.0E+00	0	9.9E-04	0.0E+00	--	--
	514 E. 8th St	A	A	--	--	--	7	2.1E-02	1.5E-01	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	5.0	12.6
	791 Flower Creek Rd	C	A	--	--	--	1	1.1E-03	1.1E-03	1	1.0E-03	1.0E-03	0	1.1E-03	0.0E+00	1.2	--
	875 Highway 2 S - Stimson Lumber	A	A	--	--	--	1	1.0E-03	1.0E-03	0	1.0E-03	0.0E+00	0	9.7E-04	0.0E+00	4.3	8.8
	1024 Montana Ave - Kootenai Valle	B1	B1	--	--	--	8	9.3E-04	7.5E-03	0	1.0E-03	0.0E+00	0	1.1E-03	0.0E+00	0.72	0.5
	514 E. 8th St	B2	B1	--	--	--	47	7.3E-03	3.4E-01	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	10.0	6.4
	875 Highway 2 S - Stimson Lumber	B1	B1	--	--	--	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	0	9.7E-04	0.0E+00	3.8	0.5
	KDC Bluffs	B2	B1	--	--	--	101	1.5E-03	1.5E-01	0	9.4E-04	0.0E+00	9	8.6E-04	7.7E-03	2.9	10.8
	224 Forest Ave	B1	B2	--	--	--	8	1.0E-03	8.0E-03	0	9.8E-04	0.0E+00	2	9.9E-04	2.0E-03	12.6	23.7
	9013 Highway 2 S	C	B2	--	--	--	7	1.0E-03	7.1E-03	0	9.6E-04	0.0E+00	4	9.3E-04	3.7E-03	1.7	5.8
Lincoln County Landfill	A	B2	--	--	--	1	3.6E-02	3.6E-02	0	9.9E-04	0.0E+00	0	9.9E-04	0.0E+00	11.7	9.9	
250 Farm to Market Rd	C	C	--	--	--	51	4.4E-03	2.3E-01	0	9.6E-04	0.0E+00	0	9.5E-04	0.0E+00	3.3	1.6	
Adult Raking	1024 Montana Ave - Kootenai Valle	A (remed)	A	1	8.5E-04	8.5E-04	--	--	--	0	9.7E-04	0.0E+00	1	8.8E-04	8.8E-04	--	3.9
	187 Vanderwood Rd	A (remed)	A	0	1.1E-03	0.0E+00	--	--	--	0	9.9E-04	0.0E+00	0	1.0E-03	0.0E+00	7.4	3.1
	2098 Farm to Market Rd	A (remed)	A	1	1.0E-03	1.0E-03	--	--	--	0	9.7E-04	0.0E+00	0	1.0E-03	0.0E+00	7.2	11.8
	2608 W. 2nd St Ext	A (remed)	A	0	9.9E-04	0.0E+00	--	--	--	0	1.1E-03	0.0E+00	0	1.1E-03	0.0E+00	1.7	8.2
	271 Mahoney Rd	A (remed)	A	0	9.4E-04	0.0E+00	--	--	--	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	2.2	0.2
	500 Jay Effar Rd	A (remed)	A	0	8.3E-04	0.0E+00	--	--	--	0	9.9E-04	0.0E+00	0	9.9E-04	0.0E+00	--	--
	514 E. 8th St	A	A	0	1.0E-03	0.0E+00	--	--	--	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	0.2	--
	791 Flower Creek Rd	C	A	0	1.0E-03	0.0E+00	--	--	--	0	1.1E-03	0.0E+00	0	1.0E-03	0.0E+00	0.8	3.0
	875 Highway 2 S - Stimson Lumber	A	A	0	1.0E-03	0.0E+00	--	--	--	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	5.8	11.5
	1024 Montana Ave - Kootenai Valle	B1	B1	36	9.2E-03	3.3E-01	--	--	--	0	1.0E-03	0.0E+00	65	2.3E-03	1.5E-01	21.5	0.85
	514 E. 8th St	B2	B1	1	1.1E-03	1.1E-03	--	--	--	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	11.6	4.04
	875 Highway 2 S - Stimson Lumber	B1	B1	1	1.0E-03	1.0E-03	--	--	--	1	1.0E-03	1.0E-03	1	9.7E-04	9.7E-04	5.6	6.64
	KDC Bluffs	B2	B1	37	1.0E-03	3.7E-02	--	--	--	18	1.1E-03	1.9E-02	0	9.4E-04	0.0E+00	9.9	11.3
	224 Forest Ave	B1	B2	0	9.9E-04	0.0E+00	--	--	--	0	9.9E-04	0.0E+00	0	9.9E-04	0.0E+00	2.2	2.0
	9013 Highway 2 S	C	B2	0	1.0E-03	0.0E+00	--	--	--	2	9.9E-04	2.0E-03	2	9.7E-04	1.9E-03	--	--
Lincoln County Landfill	A	B2	3	8.4E-04	2.5E-03	--	--	--	1	9.9E-04	9.9E-04	0	9.9E-04	0.0E+00	12.4	11.5	
250 Farm to Market Rd	C	C	0	1.0E-03	0.0E+00	--	--	--	0	9.9E-04	0.0E+00	0	9.9E-04	0.0E+00	1.7	2.0	
Lawn Mowing	1024 Montana Ave - Kootenai Valle	A (remed)	A	0	1.0E-03	0.0E+00	0	3.9E-03	0.0E+00	0	9.7E-04	0.0E+00	0	1.0E-03	0.0E+00	--	16.0
	2098 Farm to Market Rd	A (remed)	A	0	9.9E-04	0.0E+00	--	--	--	0	1.0E-03	0.0E+00	0	9.9E-04	0.0E+00	10.8	17.7
	271 Mahoney Rd	A (remed)	A	0	9.7E-04	0.0E+00	0	9.4E-04	0.0E+00	0	1.0E-03	0.0E+00	0	9.5E-04	0.0E+00	5.1	3.1
	500 Jay Effar Rd	A (remed)	A	8	1.0E-03	8.1E-03	3	9.3E-04	2.8E-03	11	9.8E-04	1.1E-02	0	3.3E-03	0.0E+00	--	--
	514 E. 8th St	A	A	3	1.0E-03	3.0E-03	15	2.2E-03	3.3E-02	0	9.8E-04	0.0E+00	0	9.8E-04	0.0E+00	20.7	82.7
	875 Highway 2 S - Stimson Lumber	A	A	0	1.0E-03	0.0E+00	1	9.6E-04	9.6E-04	0	9.9E-04	0.0E+00	1	1.0E-03	1.0E-03	10.1	23.0
	151 Vista Ave	C	B1	103	1.3E-02	1.3E+00	2	9.5E-04	1.9E-03	50	1.6E-03	7.9E-02	63	1.1E-02	6.9E-01	22.3	146.2
	187 Vanderwood Rd	A (remed)	B1	1	1.1E-03	1.1E-03	3	2.1E-03	6.4E-03	0	9.9E-04	0.0E+00	0	9.9E-04	0.0E+00	13.4	10.5
	224 Forest Ave	B1	B1	2	9.7E-04	1.9E-03	0	9.8E-04	0.0E+00	0	9.9E-04	0.0E+00	0	9.9E-04	0.0E+00	--	8.3
	2608 W. 2nd St Ext	A (remed)	B1	0	9.9E-04	0.0E+00	0	9.9E-04	0.0E+00	0	1.1E-03	0.0E+00	0	1.1E-03	0.0E+00	8.8	5.6
	514 E. 8th St	B2	B1	9	9.9E-04	8.9E-03	0	1.0E-03	0.0E+00	0	9.9E-04	0.0E+00	1	9.5E-04	9.5E-04	12.8	2.8
	791 Flower Creek Rd	C	B1	0	1.0E-03	0.0E+00	0	1.1E-03	0.0E+00	0	1.1E-03	0.0E+00	0	1.1E-03	0.0E+00	0.8	--
	875 Highway 2 S - Stimson Lumber	B1	B1	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	0	1.0E-03	0.0E+00	7.8	22.6
	Highway 37 N	B1	B1	4	1.0E-03	4.0E-03	12	1.1E-03	1.3E-02	0	1.0E-03	0.0E+00	0	9.7E-04	0.0E+00	3.4	10.4
	KDC Bluffs	B2	B1	106	3.5E-03	3.7E-01	106	1.9E-03	2.0E-01	15	1.1E-03	1.6E-02	109	2.1E-03	2.3E-01	7.7	634.4
250 Farm to Market Rd	C	B2	9	1.1E-03	9.6E-03	7	1.1E-03	7.5E-03	0	9.7E-04	0.0E+00	5	9.7E-04	4.9E-03	3.39	10.2	
Lincoln County Landfill	A	B2	16	1.4E-03	2.3E-02	3	1.8E-02	5.5E-02	3	9.9E-04	3.0E-03	0	1.0E-03	0.0E+00	28.2	50.4	

-- = no sample collected

**TABLE 7-3**

**TASK 3C: GOLF COURSE WORKER**  
**378 Cabinet View Rd - Cabinet View Country Club**

Air

IndexID	Personal/ Stationary	Sample Desc.	Sample Date	Air Volume (L)	Analysis IDSeqN	Analysis Method	Prep Method	Analysis Date	GO Size (mm <sup>2</sup> )	GO Counted	EFA (mm <sup>2</sup> )	F-factor	Analysis Sensitivity (1/cc)	Total LA Struc	Air Conc (s/cc)	Pooled Air Conc (s/cc)
SQ-00448	Personal (LV)*	Golf course worker	7/15/2005	1,610	124326	TEM-ISO10312	DIRECT	7/21/2005	0.011	24	385	1	9.1E-04	<b>4</b>	<b>3.6E-03</b>	<b>2.3E-03</b>
SQ-00449	Personal (HV)*	Golf course worker	7/15/2005	3,610	124327	TEM-ISO10312	DIRECT	7/21/2005	0.011	10	385	1	9.7E-04	<b>1</b>	<b>9.7E-04</b>	
SQ-00021	Personal (LV)	Laborer 1	6/13/2005	1,302	108270	TEM-ISO10312	DIRECT	6/23/2005	0.0099	40	385	1	7.5E-04	0	0.0E+00	0.0E+00
SQ-00022	Personal (LV)	Laborer 2	6/13/2005	1,302	124306	TEM-ISO10312	DIRECT	6/30/2005	0.0099	30	385	1	1.0E-03	<b>2</b>	<b>2.0E-03</b>	<b>2.0E-03</b>
SQ-00024	Personal (LV)	Laborer 1	6/14/2005	1,286	108273	TEM-ISO10312	DIRECT	6/30/2005	0.0099	30	385	1	1.0E-03	0	0.0E+00	0.0E+00
SQ-00025	Personal (LV)	Laborer 2	6/14/2005	1,286	108274	TEM-ISO10312	DIRECT	6/30/2005	0.0099	30	385	1	1.0E-03	0	0.0E+00	0.0E+00
SQ-00028	Personal (LV)	Laborer 1	6/15/2005	1,204	120191	TEM-ISO10312	DIRECT	7/5/2005	0.0099	33	385	1	9.8E-04	<b>3</b>	<b>2.9E-03</b>	<b>2.9E-03</b>
SQ-00029	Personal (LV)	Laborer 2	6/15/2005	1,187	124307	TEM-ISO10312	DIRECT	7/5/2005	0.0099	33	385	1	9.9E-04	<b>1</b>	<b>9.9E-04</b>	<b>9.9E-04</b>
SQ-00030	Stationary	Composite of downside of 3 different greens	6/15/2005	3,683	108532	TEM-ISO10312	DIRECT	7/5/2005	0.0099	11	385	1	9.6E-04	0	0.0E+00	0.0E+00
SQ-00026	Stationary	Composite of downwind side of 4 different greens	6/14/2005	2,703	108530	TEM-ISO10312	DIRECT	7/5/2005	0.0099	15	385	1	9.6E-04	0	0.0E+00	0.0E+00

HV = high volume pump

LV = low volume pump

\* = Both the HV and LV samples were analyzed; results were pooled

Soil\*\*

Index ID	Soil Category	Sample Location Desc	Sample Date	Sample Depth	PLM-VE					
					Analysis IDSeqN	Analysis Date	LA		OA	CHRY
							MF %	BIN	AF %	AF %
SQ-00320	Stockpile	Sand stockpile behind maintenance shed	7/16/2005	--	119244	8/16/2005	<b>Trace</b>	<b>B1</b>	ND	ND
SQ-00740	Stockpile	Sand stockpile by entrance road	7/16/2005	--	119245	8/16/2005	ND	A	ND	ND

\*\*In 2004 as part of CSS, 75 surface soil samples and 1 sand stockpile sample collected from golf course - Holes #1-9 sampled (multiple tee, fairway, green samples for each hole).

For surface soil samples, 45 samples were ND (Bin A), 28 were Trace (Bin B1), and 2 were <1% (Bin B2)

For the sand stockpile sample, result was ND (Bin A)

**Table 9-1 LA Results for Soil Samples Analyzed by PLM, SEM, and TEM**

Zone	Index ID	Property Group Desc	Land Use	Sample Type	Location Description	PLM VE RESULT	SEM (%)	TEM (%)
1	1-02061	724 Louisiana Ave - Lincoln Play Yard	Municipal	School	Play Area	ND	0.030	0.005
	CS-18273	1711 Airstrip Rd	Residential	Yard	North side yard	ND	0	0.011
	CS-18588	875 Highway 2 S - Stimson Lumber	Commercial	Property	4 (demo derby track)	ND	0.223	0.0060
	CS-20003	378 Cabinet View Rd - Cabinet View Country Club	Commercial	Property	#9 fairway	ND	0	0.00059
2	1-02907	101 Ski Rd - Libby Middle School	Municipal	Property	Soil	ND	0.020	0.007
	1-03955	414 Indian Head Rd	Residential	Yard	yard soil	ND	0.066	0.11
	CS-16831	178 Quartz Rd	Residential	Yard	Side yard	ND	0	0.069
	CS-20160	236 N. Colorado Ave	Residential	Yard	front yard, S. side yard	ND	0	0.0023
3	CS-16939	2139 Snowshoe Rd	Residential	Yard 2	Back yard	ND	0.037	0.002
	CS-17221	136 Spencer Hill Way	Residential	Flowerbed	Front, side yard south	ND	0	0.11
	CS-17891	2180 Highway 2 S	Residential	Flowerbed	Back, front, side yard	ND	0	0.034
	CS-18203	188 Terrace View Rd	Residential	Yard	Back, front, side yard	ND	0	0.001
4	1-02163	Rainy Creek Rd	Industrial	Property	Soil	ND	0.27	0.22
	1-02175	Rainy Creek Rd	Industrial	Property	Soil	ND	1.74	0.93
5	1-03305	River Run Ln #1	Residential	Yard	yard soil	ND	0	0.017
	1-03505	155 River Run Ln	Residential	Yard	lot	ND	0	0.16
	1-03633	4241 Highway 37 N	Residential	Yard	yard soil	ND	0	0.019
	1-03903	4160 Highway 37 N Ash #1	Residential	Property	vacant lot	ND	0.14	0.021
6	1-03559	893 Greers Ferry Rd	Residential	Yard	yard soil	ND	0.097	0.15
	1D-02154	633 Greers Ferry Rd	Residential	Yard	Front yard	ND	0	0.019
	1D-02783	10 Rosa	Residential	Flowerbed	Back yard	ND	0	0.010
	CS-20118	624 Travis Rd	Residential	Property	Around house	ND	0	0.027

-- = not analyzed by this method

Average (all) 0.12 0.088  
 Avg (excluding 1-02175) 0.042 0.048

**TABLE 10-1. Summary of Properties Selected for SQAPP Tasks 6-9**

<b>Address</b>	<b>VAI in Intact Structure</b>	<b>Residual LA in Dust &gt; 500s/cm<sup>2</sup></b>	<b>Active Use of HEPA Vacuum</b>	<b>Carpets as a Source</b>
187 Vanderwood Rd		x	x	x
198 Spencer Rd Ext	x	x	x	x
411 E. 10th St	x		x	
709 E. 5th St	x	x	x	x

TABLE 10-2. Tasks 6-9 Air

Panel A. 3 Months Post-Clearance

Address	Sample ID	Sample Date	Sample Location	Personal/ Stationary	Height	Analysis Method	Prep Method	Grid Openings Counted	Grid Opening Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Sample Volume (L)	Analysis Sensitivity (1/cc)	Total N LA Structures	Total LA Conc (s/cc)
187 Vanderwood Rd	SQ-00639	9/19/2005	--	Personal	--	TEM-ISO10312	INDIRECT	103	0.011	201	0.2	5113	2E-04	1	1.73E-04
	SQ-00637	9/19/2005	Living room hallway	Stationary	n/s	TEM-ISO10312	INDIRECT	103	0.011	201	0.2	5025	2E-04	0	0.00E+00
198 Spencer Rd Ext	SQ-00633	9/15/2005	--	Personal	--	TEM-ISO10312	INDIRECT	104	0.011	201	0.15	3884	3E-04	1	3.02E-04
	SQ-00632	9/15/2005	Living room entryway	Stationary	n/s	TEM-ISO10312	DIRECT	100	0.011	385	1	5478	6E-05	3	1.92E-04
411 E. 10th St	SQ-00642	7/20/2005	--	Personal	--	TEM-ISO10312	DIRECT	100	0.01	385	1	4220	9E-05	2	1.82E-04
	SQ-00640	7/20/2005	Living room	Stationary	n/s	TEM-ISO10312	DIRECT	103	0.011	385	1	4326	8E-05	2	1.57E-04
709 E. 5th St	SQ-00620	7/19/2005	--	Personal	--	TEM-ISO10312	DIRECT	100	0.01	385	1	2610	1E-04	0	0.00E+00
	SQ-00622	7/19/2005	n/s	Stationary	n/s	TEM-ISO10312	INDIRECT	103	0.011	201	0.15	3600	3E-04	1	3.29E-04

Panel B. 12 Months Post-Clearance

Address	Sample ID	Sample Date	Sample Location	Personal/ Stationary	Height	Analysis Method	Prep Method	Grid Openings Counted	Grid Opening Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Sample Volume (L)	Analysis Sensitivity (1/cc)	Total N LA Structures	Total LA Conc (s/cc)
187 Vanderwood Rd	SQ-00668	6/7/2006	--	Personal	--	TEM-ISO10312	INDIRECT	164	0.0063	1295	0.01	5214	2E-02	0	0.00E+00
	SQ-00669	6/7/2006	Living room hallway	Stationary	Adult	TEM-ISO10312	DIRECT	100	0.0135	385	1	5851	5E-05	3	1.46E-04
	SQ-00670	6/7/2006	Living room hallway	Stationary	Child	TEM-ISO10312	DIRECT	100	0.0135	385	1	5918	5E-05	9	4.34E-04
198 Spencer Rd Ext	SQ-00672	6/8/2006	--	Personal	--	TEM-ISO10312	INDIRECT	166	0.0063	1295	0.01	2872	4E-02	0	0.00E+00
	SQ-00674	6/8/2006	Living room	Stationary	Adult	TEM-ISO10312	DIRECT	100	0.01	385	1	5751	7E-05	6	4.02E-04
	SQ-00675	6/8/2006	Living room	Stationary	Child	TEM-ISO10312	DIRECT	100	0.01	385	1	5751	7E-05	7	4.69E-04
411 E. 10th St	SQ-00648	6/9/2006	--	Personal	--	TEM-ISO10312	INDIRECT	100	0.0099	1295	0.25	2612	2E-03	0	0.00E+00
	SQ-00678	6/9/2006	Middle of living room	Stationary	Adult	TEM-ISO10312	DIRECT	100	0.011	385	1	5879	6E-05	0	0.00E+00
709 E. 5th St	SQ-00660	6/6/2006	Living room	Stationary	Adult	TEM-ISO10312	DIRECT	100	0.0135	385	1	5894	5E-05	1	4.84E-05
	SQ-00661	6/6/2006	Living room	Stationary	Child	TEM-ISO10312	INDIRECT	100	0.0135	962	0.5	5894	2E-04	0	0.00E+00
	SQ-00662	6/6/2006	--	Personal	--	TEM-ISO10312	INDIRECT	100	0.0099	1295	0.15	2940	3E-03	0	0.00E+00

Panel C. 16 Months Post-Clearance

Address	Sample ID	Sample Date	Sample Location	Personal/ Stationary	Height	Analysis Method	Prep Method	Grid Openings Counted	Grid Opening Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Sample Volume (L)	Analysis Sensitivity (1/cc)	Total N LA Structures	Total LA Conc (s/cc)
187 Vanderwood Rd	SQ-00657	9/22/2006	--	Personal	--	TEM-ISO10312	INDIRECT	100	0.0096	346	0.25	5695	3E-04	6	1.52E-03
	SQ-00658	9/22/2006	Living room hallway	Stationary	Child	TEM-ISO10312	INDIRECT	100	0.0096	346	0.25	5256	3E-04	9	2.47E-03
	SQ-00659	9/22/2006	Living room hallway	Stationary	Adult	TEM-ISO10312	INDIRECT	100	0.0096	346	0.25	5498	3E-04	3	7.87E-04
198 Spencer Rd Ext	SQ-00688	10/12/2006	--	Personal	--	TEM-ISO10312	INDIRECT - ASHED	100	0.0096	346	0.25	5250	3E-04	1	2.75E-04
	SQ-00689	10/18/2006	Living Room, Near dining room	Stationary	Adult	TEM-ISO10312	DIRECT	100	0.01	385	1	5509	7E-05	11	7.69E-04
	SQ-00690	10/18/2006	Living Room, Near dining room	Stationary	Child	TEM-ISO10312	DIRECT	100	0.01	385	1	5453	7E-05	14	9.88E-04
411 E. 10th St	SQ-00683	10/18/2006	--	Personal	--	TEM-ISO10312	DIRECT	100	0.01	385	1	4717	8E-05	0	0.00E+00
	SQ-00684	10/23/2006	Middle of living room	Stationary	n/s	TEM-ISO10312	DIRECT	100	0.01	385	1	5735	7E-05	2	1.34E-04
709 E. 5th St	SQ-00653	9/20/2006	Living room	Stationary	Child	TEM-ISO10312	INDIRECT	100	0.0096	346	0.25	5935	2E-04	1	2.43E-04
	SQ-00654	9/20/2006	Living room	Stationary	Adult	TEM-ISO10312	INDIRECT	100	0.0096	346	0.25	6056	2E-04	3	7.14E-04
	SQ-00656	9/20/2006	--	Personal	--	TEM-ISO10312	INDIRECT	100	0.0096	346	0.25	5476	3E-04	0	0.00E+00

n/s = not specified

TABLE 10-3. Tasks 6-9 Dust

Panel A. Pre-Clearance

Address	Sample ID	Sample Date	Sample Location	Sample Location Details	Analysis Method	Grid Openings Counted	Grid Opening Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Sample Area (cm <sup>2</sup> )	Analysis Sensitivity (1/cm <sup>2</sup> )	Total N LA Structures	Total LA Conc (s/cm <sup>2</sup> )
187 Vanderwood Rd	1D-02257	10/19/2004	Ground floor	High traffic area	ASTM	4	0.0097	1295	0.15	300	742	2	1,483
	1D-02258	10/19/2004	Ground floor	Horizontal surface	ASTM	4	0.0097	1295	0.15	300	742	0	0
198 Spencer Rd Ext	1-01342	4/9/2000	Front Entry Carpet	High traffic area	TEM-ISO10312	10	0.0061	1295	0.125	300	566	0	0
	1-01343	4/9/2000	3 Separate Window Sills	Horizontal surface	TEM-ISO10312	10	0.0061	1295	0.125	300	566	0	0
	1D-02248	10/15/2004	Ground floor	High traffic area	ASTM	5	0.009	962	0.1	300	713	2	1,425
	1D-02249	10/15/2004	Ground floor	Horizontal surface	ASTM	5	0.009	962	0.1	300	713	0	0
	1D-02420	2/15/2005	Ground floor	Horizontal surface & high traffic area	ASTM	4	0.013	1295	0.2	300	415	0	0
	411 E. 10th St	1-07682	3/8/2003	High traffic walkways and horizontal surfaces	Building	TEM-ISO10312	10	0.0059	1295	0.5	300	146	1
411 E. 10th St	1-07683	3/8/2003	High traffic walkways	Building	TEM-ISO10312	10	0.0059	1295	0.5	300	146	0	0
	1-07684	3/8/2003	Horizontal surfaces	Building	TEM-ISO10312	10	0.0059	1295	0.5	300	146	0	0
	1-07685	3/8/2003	High traffic walkways	Building	TEM-ISO10312	10	0.0059	1295	0.5	300	146	0	0
	1-07686	3/8/2003	Horizontal surfaces	Building	TEM-ISO10312	10	0.0059	1295	0.5	300	146	0	0
709 E. 5th St	1-01358	4/10/2000	Front Entry Carpet	High traffic area	TEM-ISO10312	10	0.0061	1295	0.125	300	566	1	566
	1-01359	4/10/2000	3 Separate Window Sills	Horizontal surface	TEM-ISO10312	10	0.0061	1295	0.125	300	566	0	0

Panel B. 3 Months Post-Clearance

Address	Sample ID	Sample Date	Sample Location	Sample Location Details	Analysis Method	Grid Openings Counted	Grid Opening Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Sample Area (cm <sup>2</sup> )	Analysis Sensitivity (1/cm <sup>2</sup> )	Total N LA Structures	Total LA Conc (s/cm <sup>2</sup> )
187 Vanderwood Rd	SQ-00646	9/19/2005	Ground floor	Horizontal surface	ASTM	83	0.013	1295	0.05	300	80	0	0
	SQ-00647	9/19/2005	Ground floor	High traffic area	ASTM	78	0.013	1295	0.1	300	43	1	43
198 Spencer Rd Ext	SQ-00634	9/15/2005	Ground floor	Horizontal surface	ASTM	68	0.013	1295	0.25	300	20	0	0
	SQ-00635	9/15/2005	Ground floor	High traffic area	ASTM	70	0.013	1295	0.25	300	19	0	0
411 E. 10th St	SQ-00644	7/20/2005	Ground floor	Horizontal surface & high traffic area	ASTM	40	0.0135	962	0.3	300	20	2	40
709 E. 5th St	SQ-00625	7/19/2005	Ground floor	Horizontal surface & high traffic area	ASTM	100	0.0135	962	0.1	300	24	3	71

Panel C. 12 Months Post-Clearance

Address	Sample ID	Sample Date	Sample Location	Sample Location Details	Analysis Method	Grid Openings Counted	Grid Opening Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Sample Area (cm <sup>2</sup> )	Analysis Sensitivity (1/cm <sup>2</sup> )	Total N LA Structures	Total LA Conc (s/cm <sup>2</sup> )
187 Vanderwood Rd	SQ-00666	6/7/2006	Ground floor	Horizontal surface & high traffic area	ASTM	14	0.011	201	0.5	300	9	0	0
198 Spencer Rd Ext	SQ-00676	6/8/2006	Ground floor	Horizontal surface & high traffic area	ASTM	16	0.011	201	0.5	300	8	0	0
411 E. 10th St	SQ-00649	6/9/2006	Ground floor	Horizontal surface & high traffic area	ASTM	16	0.011	201	0.5	300	8	0	0
709 E. 5th St	SQ-00665	6/6/2006	Ground floor	Horizontal surface & high traffic area	ASTM	16	0.011	201	0.5	300	8	0	0

Panel D. 16 Months Post-Clearance

Address	Sample ID	Sample Date	Sample Location	Sample Location Details	Analysis Method	Grid Openings Counted	Grid Opening Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Sample Area (cm <sup>2</sup> )	Analysis Sensitivity (1/cm <sup>2</sup> )	Total N LA Structures	Total LA Conc (s/cm <sup>2</sup> )
187 Vanderwood Rd	SQ-00681	9/22/2006	Ground floor	Horizontal surface & high traffic area	ASTM	66	0.013	1295	0.25	300	20	1	20
198 Spencer Rd Ext	SQ-00692	10/12/2006	Ground floor	Horizontal surface & high traffic area	ASTM	77	0.013	1295	0.1	300	43	0	0
411 E. 10th St	SQ-00685	10/9/2006	Ground floor	Horizontal surface & high traffic area	ASTM	77	0.013	1295	0.1	300	43	0	0
709 E. 5th St	SQ-00651	9/20/2006	Ground floor	Horizontal surface & high traffic area	ASTM	67	0.013	1295	0.25	300	20	0	0

**TABLE 10-4  
DESCRIPTION OF PROPERTIES EVALUATED IN SQAPP TASKS 6-9**

Attribute	187 Vanderwood Road	198 Spencer Road Extension	411 East 10th Street	709 East 5th Street
Heating System Type	Forced air & Radiant heat (propane & wood stove)	Radiant heat/Forced air <sup>a</sup> (fuel oil)	Forced air (fuel oil)	Radiant heat (pellet stove, propane back-up)
Resident with former occupational exposure at property?	No (Unknown for past residents)	Yes	Yes	Yes
<b>INTERIOR</b>				
Interior Characterization	Dust samples -- 1D-02257 (House, HT) <b>1,483 s/cm<sup>2</sup></b> 1D-02258 (House, HS) <b>ND [Sens = 741]</b> 1D-02259 (Garage, HT & HS) <b>ND [Sens = 741]</b> 1D-02265 (Shed, HT & HS) <b>ND [Sens = 741]</b>  <i>V+ in attic, basement</i>	Dust samples -- 1-01342 (House, HT) <b>ND [Sens = 566]</b> 1-01343 (House, HS) <b>ND [Sens = 566]</b> 1D-02248 (House, HT) <b>1,425 s/cm<sup>2</sup></b> 1D-02249 (House, HS) <b>ND [Sens = 712]</b> 1D-02250 (Garden, HT & HS) <b>ND [Sens = 712]</b> 1D-02420 (House, HT & HS) <b>ND [Sens = 415]</b>  Stationary air samples -- 1-01317 (Living room) <b>ND [Sens = 0.0002]</b>  <i>V+ in walls and bathroom</i>	Dust samples -- 1-07682 (Basement, HT & HS) <b>146 s/cm<sup>2</sup></b> 1-07683 (1st Level, HT) <b>ND [Sens = 146]</b> 1-07684 (1st Level, HS) <b>ND [Sens = 146]</b> 1-07685 (2nd Level, HT) <b>ND [Sens = 146]</b> 1-07686 (2nd Level, HS) <b>ND [Sens = 146]</b>  <i>V+ in attic</i> <i>SIIC notes that house appears very clean</i>	Dust samples -- 1-01358 (House, HT) <b>566 s/cm<sup>2</sup></b> 1-01359 (House, HS) <b>ND [Sens = 566]</b>  Stationary air samples -- 1-01329 (Living room) <b>0.00041 s/cc</b>  <i>V+ on ground floor (mudroom) and crawlspace</i>
Interior Removal?	YES	YES	YES	YES
Interior Trigger	VCI observed in attic and leaking into basement	VCI observed in bathroom	VCI observed in attic	VCI observed in mudroom and bathroom (ground floor)
Interior Removal Description	VCI removed from unfinished attic; Interior cleaning in unfinished basement	VCI removed from utility closet in ground floor bathroom; Interior cleaning not performed	VCI removed from attic space; Interior cleaning not performed	VCI removed from attic space; Soil removed from crawlspace; Interior cleaning on ground floor
Interior Contamination Remaining	None	VCI remains in exterior walls and in utility closet wall in the bathroom; Vermiculite (non-friable) identified in chimney mortar	VCI remains in chimney chase of interior wall, in east knee wall, and beneath finished floor upstairs	VCI remains in exterior and interior walls of the addition; Crawlspace, asbestos-containing soil at a depth of 12 inches BGS
<b>EXTERIOR</b>				
Exterior Characterization	Soil Samples -- CS-04865 (Front, side yard) <b>VE = Trace</b> CS-04866 (Back yard) <b>VE = Trace</b> CS-04867 (Driveway) <b>VE = ND</b>  <i>V+ in yard and flowerbeds (Gross V+)</i>	Soil Samples -- 1-00959 (Driveway) <b>9002 &amp; VE = ND</b> 1-00960 (Front yard) <b>9002 &amp; VE = ND</b> 1-00961 (Back yard) <b>9002 &amp; VE = ND</b> 1-00962 (Garden) <b>9002 = &lt;1%</b>  <i>V+ in yard and flowerbed (due to leaking VCI)</i>	Soil Samples -- 1-04447 (yard soil) <b>9002 = ND</b> 1-04448 (yard soil) <b>9002 = ND</b> 1-04449 (flower beds) <b>9002 = ND</b> CS-08926 (Front, side yard) <b>9002 = ND</b> CS-08927 (Back yard) <b>9002 = ND</b> CS-08928 (Back, front, side yard) <b>9002 = ND</b>  <i>No observable vermiculite outdoors</i>	Soil Samples -- 1-01040 (Yard) <b>9002 &amp; VE = ND</b> 1-01042 (Garden) <b>9002 &amp; VE = ND</b> 1-01044 (Driveway) <b>9002 &amp; VE = ND</b> CS-11549 (Back yard) <b>VE = ND</b>  <i>Trace in front &amp; backyard;</i> <i>V+ in side yard (due to leaking VCI)</i>
Exterior Removal?	YES	YES	NO	NO
Exterior Trigger	Gross V+ in yard and flowerbeds	VCI leaking from exterior walls		
Exterior Removal Description	Soil removed from yard and flowerbeds	Soil removed from yard (in a 3' band north, south, and east of property) and from flowerbed west of property		
Exterior Contamination Remaining	Side yard eastern portion of property, asbestos-containing soil at a depth of 12 inches BGS	None	None	Trace in front & backyard; not clear if VCI in side yard immediately adjacent to house (due to leaking walls) was removed as part of crawlspace removal

BGS = below ground surface

ND = non-detect

V+ = vermiculite present

HT = high traffic area

HS = horizontal surface

VCI = vermiculite-containing insulation

IFF = Information Field Form

SIIC = Supplemental Interior Information Checklist

<sup>a</sup> Reported information is inconsistent: IFF identifies forced air, SIIC identifies radiant heat

**Table 11-1. Results for Dust Samples Collected Under Carpets**

Carpet Age (yrs)	Address	Sample ID	Sample Date	Sample Location	Vectors	Grid Openings Counted	Grid Opening Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Sample Area (cm <sup>2</sup> )	Analysis Sensitivity (cm <sup>2</sup> ) <sup>-1</sup>	Total LA Structures	Total LA Dust Loading (s/cm <sup>2</sup> )	95% Poisson CI, Total LA Dust Loading
5-10	305 Luscher Dr	SQ-00155	6/28/2005	Basement	N	11	0.0099	1295	0.15	400	198	0	0	0 - 731
	351 Commerce Way	SQ-00013	6/16/2005	Ground floor	N	11	0.0099	1295	0.15	400	198	0	0	0 - 731
	1314 Dakota Ave	SQ-00015	6/16/2005	2nd level	S	15	0.0099	1295	0.15	300	194	0	0	0 - 715
	321 Norman Ave	SQ-00004	6/8/2005	Ground floor	S,V	22	0.0099	1295	0.15	200	198	0	0	0 - 731
10-20	404 W. 3rd St #A	SQ-00019	6/17/2005	Ground floor	N	9	0.0099	1295	0.15	500	194	0	0	0 - 715
	1014 Sheldon Flats Rd	SQ-00032	7/12/2005	Ground floor	N	22	0.0099	1295	0.15	200	198	0	0	0 - 731
	271 Mahoney Rd	SQ-00003	6/7/2005	Ground floor	S,V	9	0.0099	1295	0.15	500	194	1	194	5 - 1,080
	516 Montana Ave	SQ-00009	6/14/2005	Ground floor	S,V,W	22	0.0099	1295	0.15	200	198	8	1,586	685 - 3,124
>20	404 W. 3rd St	SQ-00017	6/17/2005	Ground floor	N	9	0.0099	1295	0.15	500	194	0	0	0 - 715
	220 Wapiti Dr	SQ-00034	6/20/2005	Ground floor	N	15	0.0099	1295	0.15	300	194	0	0	0 - 715
	250 W. Cedar St	SQ-00011	6/15/2005	Ground floor	S	15	0.0099	1295	0.15	300	194	2	388	47 - 1,400
	215 Main Ave	SQ-00007	6/10/2005	Second level	V	8	0.0099	1295	0.15	600	182	1	182	5 - 1,012

Samples were analyzed using TEM-ISO10312.

Vectors:

- S = contaminated soil
- V = indoor vermiculite
- W = former worker
- N = none

**Table 12-1. Removal Activities and Sample Collection Dates  
for Properties Evaluated in SQAPP Task 11**

Property	Removal Activities	Cleanup Start Date	Clearance Date	Post-Clearance Date
215 Main Ave	VCI from: attic, attic kneewalls, floor; interior cleaning in finished kneewall area	6/1/2005	6/8/2005	6/10/2005
1314 Dakota Ave	exterior; VCI from flooring in attic kneewalls, master bedroom, and bathroom (due to homeowner performing remodeling in these areas); interior cleaning	6/27/2005	7/5/2005	7/8/2005
807 Louisiana Ave	exterior, VCI from house and garage attics, interior cleaning in basement utility room	6/22/2005	7/5/2005	7/8/2005
1014 Louisiana Ave	exterior, VCI from attic and walls of southeast bedroom closet, interior cleaning on 2nd floor including southeast closet and east kneewall	6/20/2005	6/27/2005	6/29/2005
36 Cedar St Ext	exterior, VCI from attic and flooring, removal of exterior wall chinking, interior cleaning in basement and stairwell, encapsulate heating ducts/chimney mortar, cover over basement soils	7/6/2005	7/12/2005	7/14/2005
310 E. 5th St	exterior, VCI from attic, interior cleaning on ground floor, soil removal from crawlspace	7/5/2005	7/12/2005	7/14/2005
105 E. Cedar St - Libby Baptist Church	VCI from attic, interior cleaning on ground floor	7/11/2005	7/14/2005	7/16/2005
308 Idaho Ave	exterior, VCI from attic, interior cleaning in basement, cover over basement soils	7/12/2005	7/18/2005	7/21/2005
1705 Airstrip Rd	exterior, VCI from attic, interior cleaning on ground floor, soil removal from crawlspace	7/25/2005	8/2/2005	8/5/2005

VCI = vermiculite-containing insulation

N/A = Not applicable, clearance samples were not collected from main living area

**Table 12-2. Indoor Dust Samples**

Address	Sample ID	Sample Date	Sample Location	Sample Area (cm <sup>2</sup> )	Status
215 Main Ave	SQ-00772	7/21/2005	Second level	300	Archived
807 Louisiana Ave	SQ-00766	7/20/2005	Basement	300	Archived
308 Idaho Ave	SQ-00768	7/21/2005	Basement	300	Archived
36 Cedar St Ext	SQ-00764	7/19/2005	Basement	300	Archived
1014 Louisiana Ave	SQ-00770	7/21/2005	Second level	300	Archived
1705 Airstrip Rd	SQ-00605	8/5/2005	Ground floor	300	Archived
1314 Dakota Ave	SQ-00774	7/21/2005	Second level	300	Archived
310 E. 5th St	SQ-00771	7/21/2005	Ground floor	300	Archived
105 E. Cedar St - Libby Baptist Church	SQ-00572	7/16/2005	Ground floor	300	Archived

**Table 12-3. Post-Clearance Stationary Air Samples**

Address	Sample ID	Sample Date	Sample Location	Sample Volume (L)	Analysis Method	Prep Method	GO Counted	GO Size (mm <sup>2</sup> )	EFA (mm <sup>2</sup> )	F-Factor	Analysis Sensitivity (cc) <sup>-1</sup>	Total N LA Structures	Total LA Air Conc (s/cc)	95% Poisson CI, Total LA Air Conc
215 Main Ave	SQ-00006	6/10/2005	Second floor	6,577	TEM-ISO10312	Direct	100	0.0099	385	1	0.000059	7	0.00041	0.00017 - 0.00085
1314 Dakota Ave	SQ-00745	7/8/2005	Upstairs room	6,527	TEM-ISO10312	Direct	100	0.0101	385	1	0.000058	5	0.00029	0.00009 - 0.00068
807 Louisiana Ave	SQ-00747	7/8/2005	Basement laundry room	6,353	TEM-ISO10312	Direct	100	0.0101	385	1	0.000060	9	0.00054	0.00025 - 0.00103
1014 Louisiana Ave	SQ-00157	6/29/2005	Top of stairs in finished attic	6,571	TEM-ISO10312	Indirect	100	0.0101	1295	0.5	0.00039	2	0.00078	0.00009 - 0.00282
36 Cedar St Ext	SQ-00527	7/14/2005	Bottom of stairs in basement	6,413	TEM-ISO10312	Direct	100	0.0101	385	1	0.000059	6	0.00036	0.00013 - 0.00078
310 E. 5th St	SQ-00528	7/14/2005	Dining room	6,424	TEM-ISO10312	Direct	100	0.0101	385	1	0.000059	7	0.00042	0.00017 - 0.00086
105 E. Cedar St - Libby Baptist Church	SQ-00558	7/16/2005	Kitchen	6,311	TEM-ISO10312	Direct	100	0.0101	385	1	0.000060	0	0	0 - 0.00022
308 Idaho Ave	SQ-00769	7/21/2005	Bottom of stairs to basement	6,560	TEM-ISO10312	Direct	100	0.0101	385	1	0.000058	3	0.00017	0.00004 - 0.00051
1705 Airstrip Rd	SQ-00604	8/5/2005	Living room near entrance to bedroom	6,577	TEM-ISO10312	Direct	104	0.011	385	1	0.000051	2	0.00010	0.00001 - 0.00037

**Mean Conc (s/cc): 0.00034**

**TABLE 13-1**  
**SUMMARY STATISTICS FOR 404 AMBIENT AIR SAMPLES FROM LIBBY, MT**

Zone	Total Samples	Total Detects	Detection Frequency	Analysis Sensitivity (cc) <sup>-1</sup>		Air Concentration (s/cc)	
				Mean	Range (Min-Max)	Mean	Range (Min-Max)
1	108	12	11%	3.3E-03	2.0E-04 - 4.3E-02	2.2E-04	0.0E+00 - 5.2E-03
2	100	2	2%	2.9E-03	1.9E-04 - 7.1E-03	1.0E-04	0.0E+00 - 7.8E-03
3	53	2	4%	2.8E-03	2.0E-04 - 1.4E-02	1.0E-04	0.0E+00 - 5.2E-03
4	119	40	34%	1.2E-03	2.1E-04 - 3.7E-03	1.9E-03	0.0E+00 - 3.3E-02
5	24	4	17%	2.4E-03	2.9E-04 - 4.6E-03	5.3E-04	0.0E+00 - 5.2E-03
ALL	404	60	15%	2.5E-03	1.9E-04 - 4.3E-02	6.8E-04	0.0E+00 - 3.3E-02

**TABLE 13-2**  
**SUMMARY STATISTICS FOR 33 AMBIENT AIR SAMPLES SELECTED FOR REANALYSIS**

**PANEL A: INITIAL RESULTS**

Zone	Total Samples	Total Detects	Detection Frequency	Analysis Sensitivity (cc) <sup>-1</sup>		Air Concentration (s/cc)	
				Mean	Range (Min-Max)	Mean	Range (Min-Max)
1	11	4	36%	1.8E-03	2.5E-04 - 4.7E-03	4.8E-04	0.0E+00 - 2.7E-03
2	13	1	8%	2.7E-03	2.5E-04 - 4.6E-03	1.9E-04	0.0E+00 - 2.5E-03
3	8	1	13%	3.0E-03	8.7E-04 - 4.8E-03	2.3E-04	0.0E+00 - 1.8E-03
5	1	1	100%	4.3E-03	4.3E-03 - 4.3E-03	8.6E-03	8.6E-03 - 8.6E-03
ALL	33	7	21%	2.5E-03	2.5E-04 - 4.8E-03	5.5E-04	0.0E+00 - 8.6E-03

**PANEL B: RE-ANALYSIS RESULTS**

Zone	Total Samples	Total Detects	Detection Frequency	Analysis Sensitivity (cc) <sup>-1</sup>		Air Concentration (s/cc)	
				Mean	Range (Min-Max)	Mean	Range (Min-Max)
1	11	6	55%	1.0E-04	9.9E-05 - 1.1E-04	2.2E-04	0.0E+00 - 1.1E-04
2	13	6	46%	1.0E-04	9.9E-05 - 1.2E-04	1.3E-04	0.0E+00 - 1.2E-04
3	8	2	25%	1.1E-04	9.7E-05 - 1.2E-04	9.6E-05	0.0E+00 - 1.2E-04
5	1	1	100%	9.9E-05	9.9E-05 - 9.9E-05	2.3E-03	2.3E-03 - 2.3E-03
ALL	33	15	45%	1.0E-04	9.7E-05 - 1.2E-04	2.1E-04	0.0E+00 - 1.2E-04

**TABLE 14-1  
PERIMETER AIR SUMMARY STATISTICS BY PROPERTY**

Property ID	Address	Land Use	Sampling Date Range	Detection Frequency	Mean Air Conc. (s/cc)	Air Conc. Range (s/cc)	Mean Sensitivity (cc) <sup>-1</sup>	Sensitivity Range (cc) <sup>-1</sup>
1	Screening Plant	Residential	7/4/00 - 4/17/03	568/1986 29%	2.8E-03	0.0E+00 - 5.0E-01	4E-03	4E-04 - 1E-01
3	1004 Utah Ave	Residential	4/8/03 - 4/8/03	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
4	102 Mineral Ave - Second Hand Store	Commercial	3/19/04 - 5/18/04	0/29 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	3E-03 - 6E-03
7	1212 Louisiana Ave	Residential	3/21/03 - 6/13/03	0/24 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 2E-02
10	1320 Louisiana Ave	Residential	4/12/04 - 4/13/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	8E-03	5E-03 - 1E-02
13	1573 Kootenai River Rd	Residential	8/14/03 - 8/20/03	0/19 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
19	203 E. Spruce St	Residential	9/20/04 - 9/22/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
20	2113 Highway 2 W	Residential	5/30/03 - 6/3/03	2/15 13%	9.0E-04	0.0E+00 - 8.8E-03	5E-03	3E-03 - 1E-02
22	2608 W. 2nd St Ext	Residential	11/9/02 - 11/18/02	0/32 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
28	35 Granite Ave	Residential	9/11/01 - 9/11/01	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
30	381 S. Central Rd	Residential	4/9/03 - 4/10/03	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
40	605 Utah Ave	Residential	11/2/02 - 11/2/02	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
57	Rainy Creek Rd	Industrial	11/14/00 - 11/2/02	40/96 42%	8.9E-03	0.0E+00 - 1.8E-01	3E-03	5E-04 - 5E-03
63	MillWork West	Commercial	7/28/00 - 12/6/00	70/586 12%	6.1E-04	0.0E+00 - 6.9E-02	3E-03	1E-03 - 1E-02
64	2293 Kootenai River Rd	Residential	6/17/03 - 8/7/03	2/75 3%	1.2E-04	0.0E+00 - 4.7E-03	5E-03	4E-03 - 6E-03
65	281 S. Central Rd	Residential	8/12/03 - 8/13/03	0/7 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
66	3496 Highway 2 S	Residential	7/27/01 - 11/2/01	14/562 2%	7.5E-05	0.0E+00 - 4.5E-03	4E-03	1E-03 - 6E-03
71	1020 California Ave	Residential	11/3/01 - 11/9/01	0/24 0%	0.0E+00	0.0E+00 - 0.0E+00	3E-03	1E-03 - 5E-03
74	1108 Louisiana Ave	Residential	9/17/03 - 9/17/03	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
75	113 W. Oak St	Residential	10/31/03 - 11/7/03	0/14 0%	0.0E+00	0.0E+00 - 0.0E+00	6E-03	3E-03 - 3E-02
79	1314 Dakota Ave	Residential	6/27/05 - 6/28/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
81	141 Conifer Rd	Residential	8/2/04 - 8/2/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
82	1511 Dakota Ave	Residential	9/12/05 - 9/26/05	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
83	156 S. Central Rd	Residential	8/7/02 - 8/15/02	2/27 7%	3.3E-04	0.0E+00 - 5.0E-03	4E-03	2E-03 - 6E-03
86	2098 Farm to Market Rd	Residential	5/6/03 - 5/8/03	0/12 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
87	210 W. Balsam St	Residential	5/24/05 - 5/24/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
89	259 Remps Rd	Residential	8/12/05 - 8/18/05	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
91	284 Terrace View Rd	Residential	7/28/04 - 7/28/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
92	31 Woodway Ave	Residential	9/19/05 - 9/20/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
99	414 Nevada Ave	Residential	9/28/04 - 9/30/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
105	546 Granite Ave	Residential	9/22/05 - 9/23/05	1/2 50%	4.6E-03	0.0E+00 - 9.2E-03	5E-03	5E-03 - 5E-03
109	622 Michigan Ave	Residential	4/16/03 - 4/23/03	0/6 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
111	653 Flower Creek Rd	Residential	10/9/03 - 10/14/03	0/16 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
112	711 California Ave - Community Health Center	Residential	12/13/01 - 12/13/01	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
113	711 Shaughnessy Hill Rd	Residential	2/22/03 - 3/4/03	0/6 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
114	717 Main Ave	Residential	10/7/03 - 10/8/03	0/8 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
115	812 W. Balsam St	Residential	10/8/03 - 10/8/03	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	7E-03	7E-03 - 7E-03
120	893 Greers Ferry Rd	Residential	9/21/01 - 9/27/01	2/21 10%	2.4E-04	0.0E+00 - 3.0E-03	4E-03	1E-03 - 5E-03
130	110 Montgomery Dr	Residential	6/4/02 - 10/9/03	0/9 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
133	121 W. Cedar St	Residential	9/14/04 - 9/17/04	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 6E-03
134	1218 Montana Ave	Residential	8/24/04 - 8/30/04	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
135	123 Hamann Ave	Residential	9/11/02 - 9/18/02	2/24 8%	4.0E-04	0.0E+00 - 4.8E-03	4E-03	2E-03 - 5E-03
137	1305 Dakota Ave	Residential	3/28/03 - 3/31/03	1/3 33%	1.4E-03	0.0E+00 - 4.3E-03	5E-03	4E-03 - 5E-03
138	1306 Highway 2 W	Residential	10/11/01 - 10/11/01	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
141	198 Ski Rd	Residential	8/12/05 - 8/24/05	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	1E-02	4E-03 - 3E-02
151	303 W. Thomas St	Residential	5/30/02 - 10/29/02	1/13 8%	3.3E-04	0.0E+00 - 4.3E-03	4E-03	3E-03 - 5E-03
154	319 Norman Ave	Residential	9/18/02 - 10/1/02	2/40 5%	2.5E-04	0.0E+00 - 8.5E-03	3E-03	2E-03 - 5E-03
155	346 Granite Ave	Residential	7/14/04 - 7/23/04	0/5 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
158	3647 Highway 2 S	Residential	7/16/03 - 7/22/03	0/23 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	3E-03 - 5E-03
162	44 Pine St	Residential	9/28/04 - 10/1/04	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
164	500 Jay Effar Rd	Residential	8/15/02 - 8/20/02	4/15 27%	1.7E-03	0.0E+00 - 1.6E-02	6E-03	1E-03 - 2E-02
167	505 Louisiana Ave	Residential	3/18/03 - 3/18/03	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
172	5878 Champion Haul Rd	Residential	4/28/01 - 4/28/01	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
173	600 Avenue B	Residential	9/7/04 - 9/21/04	0/14 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
174	609 E. 9th St - H & R Block	Residential/Commercial	5/13/05 - 5/16/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
180	781 Terrace View Rd	Residential	10/23/01 - 9/9/02	0/20 0%	0.0E+00	0.0E+00 - 0.0E+00	3E-03	2E-03 - 5E-03
183	819 Cabinet Heights Rd	Residential	8/22/01 - 8/26/01	0/19 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 6E-03
192	150 Education Way - Libby High School	Municipal	6/19/01 - 8/29/01	26/271 10%	3.1E-04	0.0E+00 - 1.2E-02	3E-03	4E-04 - 7E-03
194	KDC Bluffs	Residential	8/10/01 - 9/26/03	105/451 23%	1.2E-03	0.0E+00 - 2.7E-02	3E-03	1E-03 - 2E-02
196	Lincoln County Landfill	Commercial	6/26/01 - 11/14/05	7/119 6%	3.1E-04	0.0E+00 - 9.8E-03	4E-03	2E-03 - 5E-03
198	101 Ski Rd - Libby Middle School	Municipal	8/22/01 - 8/26/04	17/180 9%	8.4E-04	0.0E+00 - 5.4E-02	4E-03	2E-03 - 5E-03
200	Mine Rd	Commercial	5/11/01 - 9/8/01	45/69 65%	8.2E-03	0.0E+00 - 6.7E-02	2E-03	6E-04 - 9E-03
203	Owens Property	Residential	9/18/00 - 9/20/00	0/5 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03

**TABLE 14-1  
PERIMETER AIR SUMMARY STATISTICS BY PROPERTY**

Property ID	Address	Land Use	Sampling Date Range	Detection Frequency		Mean Air Conc. (s/cc)	Air Conc. Range (s/cc)	Mean Sensitivity (cc) <sup>-1</sup>	Sensitivity Range (cc) <sup>-1</sup>
205	247 Indian Head Rd - Plummer Elementary School	School	7/13/01 - 10/19/02	3/61	5%	1.3E-04	0.0E+00 - 4.7E-03	3E-03	1E-03 - 2E-02
211	214 Colorado Ave	Residential	10/19/00 - 10/26/00	1/5	20%	6.0E-04	0.0E+00 - 3.0E-03	3E-03	3E-03 - 4E-03
212	1417 Louisiana Ave	Residential	5/15/03 - 5/16/03	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
219	106 Voves Ave	Residential	7/9/03 - 7/18/03	1/30	3%	1.5E-04	0.0E+00 - 4.4E-03	5E-03	4E-03 - 2E-02
220	107 Montana Ave	Residential	10/25/04 - 10/26/04	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
223	1109 Louisiana Ave	Residential	3/14/03 - 3/18/03	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
226	115 W. 2nd St - Kootenai Angler	NA	12/5/02 - 12/14/02	0/19	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
227	1201 Utah Ave	Residential	9/23/03 - 9/23/03	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
233	1406 Utah Ave	Residential	8/23/04 - 8/23/04	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
234	141 Forest Ave	Residential	8/12/05 - 8/24/05	0/7	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
236	1417 Washington Ave	Residential	9/18/03 - 9/25/03	3/24	13%	5.7E-04	0.0E+00 - 4.9E-03	4E-03	4E-03 - 5E-03
237	1421 Main Ave	Residential	9/12/03 - 9/17/03	2/16	13%	5.4E-04	0.0E+00 - 4.3E-03	5E-03	4E-03 - 1E-02
238	154 Ski Rd	Residential	10/21/02 - 6/6/03	4/44	9%	5.2E-04	0.0E+00 - 8.9E-03	5E-03	4E-03 - 1E-02
244	191 Farm to Market Rd	Residential	10/5/04 - 10/5/04	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
245	198 Spencer Rd Ext	Residential	6/24/05 - 6/24/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
247	208 W. Spruce St	Residential	6/7/05 - 6/7/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
248	213 W. Balsam St	Residential	5/24/05 - 5/24/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
249	25 Evergreen St	Residential	6/4/04 - 6/11/04	0/6	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
251	310 E. 5th St	Residential	7/11/05 - 7/11/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
264	4241 Highway 37 N	Residential	10/26/02 - 11/9/02	4/48	8%	4.7E-04	0.0E+00 - 8.8E-03	5E-03	3E-03 - 3E-02
268	512 W. 6th St	Residential	10/7/04 - 10/27/04	0/5	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
271	516 Montana Ave	Residential	6/15/05 - 6/15/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
273	56 Enders Dr	Residential	10/15/04 - 10/15/04	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
280	6814 Highway 37 N	Residential	3/3/03 - 3/4/03	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	3E-03 - 5E-03
304	1124 Idaho Ave	Residential	10/11/04 - 10/13/04	1/3	33%	1.3E-03	0.0E+00 - 4.0E-03	4E-03	4E-03 - 5E-03
309	1417 Montana Ave	Residential	7/21/05 - 7/21/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
310	1421 Louisiana Ave	Residential	10/21/03 - 10/30/03	0/30	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 2E-02
311	143 Crossway Ave	Residential	6/11/03 - 6/16/03	0/14	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 6E-03
312	15 Avenue B	Residential	6/16/03 - 6/26/03	2/39	5%	2.6E-04	0.0E+00 - 5.1E-03	5E-03	3E-03 - 1E-02
319	241 Reserve Rd	Residential	8/9/05 - 8/10/05	1/2	50%	4.5E-03	0.0E+00 - 9.0E-03	5E-03	5E-03 - 5E-03
325	296 Quartz Rd	Residential	4/21/03 - 4/30/03	0/8	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
331	3724 Highway 2 S	Residential	10/24/05 - 10/25/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
339	506 Indian Head Rd	Residential	7/8/05 - 7/11/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	2E-02	4E-03 - 3E-02
341	52 Pearl St	Residential	5/8/03 - 5/13/03	0/9	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
344	616 W. 2nd St Ext	Residential	8/18/05 - 8/24/05	0/5	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
345	620 Dakota Ave	Residential	5/19/05 - 5/20/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
352	86 Paliga Dr	Residential	8/2/03 - 8/11/03	0/23	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
360	208 W. Balsam St	Residential	6/1/05 - 6/1/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	3E-03	3E-03 - 3E-03
362	450 Farm to Market Rd	Residential	10/15/03 - 10/24/03	0/32	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
364	596 Jay Effar Rd	Residential	4/2/03 - 4/3/03	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	3E-03	2E-03 - 4E-03
370	113 Bobtail Rd	Residential	8/1/03 - 8/25/03	2/50	4%	2.8E-04	0.0E+00 - 9.4E-03	5E-03	4E-03 - 5E-03
374	1221 Montana Ave	Residential	8/8/03 - 6/14/05	0/5	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
390	2129 Highway 2 S	Residential	4/25/03 - 5/1/03	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
391	221 W. Poplar St	Residential	5/2/05 - 5/2/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
408	3705 Highway 2 S	Residential	5/18/05 - 5/18/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
410	38 Spencer Hill Way	Residential	7/30/03 - 8/5/03	0/22	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
419	461 Parmenter Dr	Residential	10/14/03 - 10/15/03	0/7	0%	0.0E+00	0.0E+00 - 0.0E+00	6E-03	4E-03 - 1E-02
427	519 Louisiana Ave	Residential	8/6/04 - 8/6/04	1/1	100%	4.4E-03	4.4E-03 - 4.4E-03	4E-03	4E-03 - 4E-03
432	6280 Farm to Market Rd	Residential	9/1/04 - 9/10/04	0/5	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	3E-03 - 5E-03
444	1004 Mineral Ave	Residential	10/26/04 - 10/26/04	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
445	1010 Mineral Ave	Residential	8/30/04 - 8/31/04	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
452	1108 Dakota Ave	Residential	10/8/03 - 10/9/03	0/8	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
469	1504 Lolo Ave	Residential	2/17/03 - 2/21/03	0/9	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
474	1604 Minnesota Ave	Residential	9/11/03 - 9/12/03	0/8	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
476	1705 Airstrip Rd	Residential	7/26/05 - 7/27/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
482	188 Rustic Ave	Residential	9/8/05 - 9/9/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
492	224 Forest Ave	Residential	7/19/05 - 7/22/05	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
493	233 W. Larch St	Residential	2/12/03 - 2/12/03	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
515	34 Bowker St #13	Residential	10/17/02 - 11/1/02	4/42	10%	2.6E-04	0.0E+00 - 4.2E-03	4E-03	2E-03 - 1E-02
518	3504 Highway 2 S	Residential	11/15/02 - 11/16/02	0/8	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
521	3796 Highway 2 S	Residential	9/16/03 - 9/24/03	0/12	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
522	3798 Highway 2 S	Residential	9/16/03 - 9/24/03	0/16	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 6E-03
524	39 Conifer Rd	Residential	10/11/05 - 10/14/05	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
528	409 E. 8th St	Residential	7/22/05 - 7/27/05	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	1E-02	4E-03 - 3E-02
529	411 Dakota Ave	Residential	9/14/04 - 9/16/04	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
534	46 Burr Ave	Residential	5/6/03 - 5/12/03	0/9	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03

**TABLE 14-1  
PERIMETER AIR SUMMARY STATISTICS BY PROPERTY**

Property ID	Address	Land Use	Sampling Date Range	Detection Frequency	Mean Air Conc. (s/cc)	Air Conc. Range (s/cc)	Mean Sensitivity (cc) <sup>-1</sup>	Sensitivity Range (cc) <sup>-1</sup>
536	484 Pioneer Rd	Residential	1/18/03 - 1/23/03	0/18 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
545	5295 Highway 2 S	Residential	10/11/04 - 10/18/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
575	1024 Montana Ave - Kootenai Valley Christian Schoo	Commercial	8/22/03 - 8/10/05	1/18 6%	5.4E-04	0.0E+00 - 9.6E-03	5E-03	4E-03 - 2E-02
584	427 W. Thomas St	Residential	10/25/00 - 11/6/00	1/3 33%	1.2E-03	0.0E+00 - 3.6E-03	4E-03	4E-03 - 4E-03
587	BNSF Libby Railyard	Commercial	8/28/03 - 11/16/05	6/187 3%	1.8E-04	0.0E+00 - 1.2E-02	4E-03	2E-03 - 6E-03
589	Champion Haul Rd	Roadway	10/24/01 - 8/26/02	0/14 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	2E-03 - 5E-03
611	Screening Plant Flyway	Mine	8/22/01 - 9/7/02	8/40 20%	8.2E-04	0.0E+00 - 8.3E-03	4E-03	2E-03 - 3E-02
620	565 City Service Rd - Kootenai Valley Christian Sc	School	6/4/03 - 6/12/03	0/11 0%	0.0E+00	0.0E+00 - 0.0E+00	6E-03	4E-03 - 2E-02
624	100 E. 1st St - Achievements Maintenance Shop	Commercial	12/16/02 - 12/18/02	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
628	300 Granite Ave	Residential	7/26/04 - 7/28/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
654	1217 Dakota Ave	Residential	10/21/04 - 10/25/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
658	911 Main Ave	Residential	9/27/05 - 9/28/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
661	280 S. Central Rd	Residential	6/7/02 - 6/23/03	0/21 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
664	1203 Minnesota Ave - Millwork West	Commercial	9/30/02 - 10/3/02	0/5 0%	0.0E+00	0.0E+00 - 0.0E+00	2E-03	2E-03 - 2E-03
667	875 Highway 2 S - Stimson Lumber	Commercial	7/6/04 - 6/11/05	0/56 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 1E-02
718	308 Main Ave	Residential	9/30/03 - 10/2/03	0/6 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
719	312 Main Ave	Residential	9/30/03 - 10/2/03	0/6 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
725	620 California Ave	Residential	7/29/04 - 7/29/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
729	213 Colorado Ave	Residential	11/11/03 - 11/12/03	0/8 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
734	1306 Louisiana Ave	Residential	3/26/03 - 4/2/03	0/7 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
742	503 Idaho Ave	Residential	8/7/03 - 8/13/03	0/20 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
752	810 Wisconsin Ave	Residential	5/4/04 - 5/5/04	1/8 13%	5.5E-04	0.0E+00 - 4.4E-03	5E-03	4E-03 - 5E-03
773	504 W. 2nd St	Residential	9/16/04 - 9/16/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
776	312 Colorado Ave	Residential	7/31/03 - 7/31/03	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
784	609 Idaho Ave	Residential	6/16/04 - 6/17/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
787	308 E. 2nd St - St. John's Outpatient Therapy	Commercial	8/2/05 - 9/16/05	6/114 5%	2.2E-04	0.0E+00 - 4.6E-03	4E-03	4E-03 - 5E-03
791	1403 Montana Ave	Residential	6/14/04 - 6/14/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
792	1021 Idaho Ave	Residential	9/12/03 - 9/22/03	0/28 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
798	715 Idaho Ave	Residential	4/22/03 - 4/24/03	0/5 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
801	415 W. 2nd St	Residential	9/14/04 - 9/14/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
804	519 W. 3rd St	Residential	1/31/03 - 6/7/03	2/21 10%	4.3E-04	0.0E+00 - 4.6E-03	5E-03	4E-03 - 8E-03
807	520 Idaho Ave	Residential	8/13/03 - 8/14/03	0/8 0%	0.0E+00	0.0E+00 - 0.0E+00	6E-03	4E-03 - 7E-03
820	1311 Idaho Ave	Residential	9/29/03 - 9/29/03	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	6E-03	6E-03 - 6E-03
822	709 Idaho Ave	Residential	9/28/04 - 9/28/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
827	1215 Idaho Ave	Residential	4/4/03 - 4/7/03	0/6 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
830	507 E. Lincoln Blvd	Residential	4/20/04 - 4/23/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
841	720 Michigan Ave	Residential	9/29/04 - 9/30/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
854	813 Wisconsin Ave	Residential	7/13/05 - 7/15/05	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
870	603 W. 10th St	Residential	3/11/03 - 6/23/03	0/22 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 1E-02
871	607 W. 10th St	Residential	3/8/03 - 6/23/03	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
884	607 Dakota Ave	Residential	6/24/04 - 6/25/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	3E-03 - 4E-03
886	421 W. 2nd St	Residential	8/16/05 - 8/17/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
891	1221 Louisiana Ave	Residential	9/29/04 - 10/1/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
902	1202 Louisiana Ave	Residential	8/15/03 - 8/18/03	0/7 0%	0.0E+00	0.0E+00 - 0.0E+00	6E-03	4E-03 - 1E-02
904	514 E. 8th St	Residential	7/28/05 - 7/29/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
910	1113 Dakota Ave	Residential	10/2/03 - 10/3/03	0/8 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
911	1314 Louisiana Ave	Residential	3/26/03 - 4/2/03	1/7 14%	6.1E-04	0.0E+00 - 4.3E-03	5E-03	4E-03 - 5E-03
918	310 W. 8th St	Residential	9/30/04 - 10/1/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
926	1115 Dakota Ave	Residential	9/1/04 - 9/1/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
938	518 E. 5th St	Residential	9/29/05 - 9/30/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	2E-02	4E-03 - 4E-02
951	87 Yellowtail Rd	Residential	9/3/03 - 9/9/03	0/14 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 6E-03
957	1415 Dakota Ave	Residential	9/6/05 - 9/7/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
959	1512 Dakota Ave	Residential	9/30/03 - 10/6/03	1/20 5%	4.2E-04	0.0E+00 - 8.4E-03	4E-03	4E-03 - 5E-03
984	821 Minnesota Ave	Residential	6/17/04 - 6/17/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
985	112 W. Balsam St	Residential	5/12/05 - 5/17/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
988	502 Dakota Ave	Residential	9/19/03 - 9/22/03	0/8 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
989	1011 Main Ave	Residential	7/23/03 - 7/30/03	1/28 4%	1.6E-04	0.0E+00 - 4.5E-03	5E-03	4E-03 - 1E-02
1012	1204 Montana Ave	Residential	6/13/05 - 6/13/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1013	1214 Montana Ave	Residential	8/8/05 - 8/8/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1014	1302 Montana Ave	Residential	6/29/05 - 6/29/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1021	102 E. Larch St	Residential	6/21/05 - 6/21/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03

**TABLE 14-1  
PERIMETER AIR SUMMARY STATISTICS BY PROPERTY**

Property ID	Address	Land Use	Sampling Date Range	Detection Frequency	Mean Air Conc. (s/cc)	Air Conc. Range (s/cc)	Mean Sensitivity (cc) <sup>-1</sup>	Sensitivity Range (cc) <sup>-1</sup>
1026	514 Minnesota Ave	Residential	9/16/04 - 9/20/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1030	613 Minnesota Ave	Residential	7/30/04 - 8/2/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1031	805 Minnesota Ave	Residential	7/13/04 - 7/14/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1045	418 Louisiana Ave	Residential	5/2/05 - 5/2/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1053	1414 Montana Ave	Residential	7/20/05 - 7/20/05	1/1 100%	4.1E-03	4.1E-03 - 4.1E-03	4E-03	4E-03 - 4E-03
1067	1411 1/2 Main Ave	Residential	9/20/04 - 9/20/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1069	107 W. 4th St - EMSL Lab	Commercial	9/7/02 - 9/10/02	1/3 33%	1.4E-03	0.0E+00 - 4.3E-03	2E-03	2E-03 - 2E-03
1078	116 E. Balsam St	Residential	10/4/04 - 10/4/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1081	222 E. Balsam St	Residential	8/13/04 - 8/16/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1088	621 Dakota Ave	Residential	10/3/03 - 10/6/03	0/8 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1090	1402 Nevada Ave	Residential	8/21/03 - 8/21/03	1/2 50%	2.5E-03	0.0E+00 - 4.9E-03	5E-03	5E-03 - 5E-03
1092	1019 Utah Ave	Residential	8/16/04 - 8/16/04	1/1 100%	4.5E-03	4.5E-03 - 4.5E-03	5E-03	5E-03 - 5E-03
1095	604 Utah Ave	Residential	5/27/05 - 5/31/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1101	1022 Utah Ave	Residential	7/16/03 - 7/16/03	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	1E-02	5E-03 - 2E-02
1103	205 W. Spruce St	Residential	8/24/04 - 8/25/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1106	1104 Montana Ave	Residential	7/6/05 - 7/6/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1120	1318 Nevada Ave	Residential	8/18/03 - 8/21/03	1/8 13%	7.8E-04	0.0E+00 - 6.2E-03	5E-03	4E-03 - 6E-03
1124	610 California Ave - Family Eye Care Clinic	Residential/Commercial	10/20/04 - 10/21/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1125	118 W. Poplar St	Residential	10/19/04 - 5/5/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1135	713 Michigan Ave	Residential	5/12/03 - 5/12/03	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1137	415 Utah Ave	Residential	9/14/04 - 9/14/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1138	111 W. Balsam St	Residential	10/19/04 - 11/4/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1156	103 W. Balsam St	Residential	10/6/04 - 10/8/04	1/3 33%	1.3E-03	0.0E+00 - 4.0E-03	4E-03	4E-03 - 5E-03
1158	1312 Nevada Ave	Residential	8/18/03 - 8/20/03	0/6 0%	0.0E+00	0.0E+00 - 0.0E+00	6E-03	4E-03 - 8E-03
1167	1408 Montana Ave	Residential	6/16/04 - 7/11/05	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1169	1315 Utah Ave	Residential	11/3/03 - 11/6/03	0/16 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 7E-03
1177	113 W. Poplar St	Residential	6/23/04 - 6/23/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1182	1421 Utah Ave	Residential	8/10/04 - 8/10/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1185	906 W. Balsam St	Residential	6/18/04 - 6/22/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1197	1028 Montana Ave	Residential	7/8/05 - 7/8/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1199	222 W. Poplar St	Residential	11/13/03 - 11/14/03	0/7 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1203	610 Michigan Ave	Residential	5/3/04 - 5/4/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1221	1027 California Ave	Residential	8/6/03 - 8/6/03	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	6E-03	6E-03 - 6E-03
1225	1119 Montana Ave	Residential	6/23/05 - 6/23/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1229	1010 Washington Ave	Residential	4/14/05 - 4/14/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1236	1303 Washington Ave	Residential	7/26/03 - 4/18/05	0/9 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 7E-03
1244	509 E. 8th St	Residential	5/6/05 - 5/6/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	3E-02	3E-02 - 3E-02
1253	210 W. Poplar St	Residential	5/16/05 - 5/16/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1261	113 W. Spruce St	Residential	6/2/05 - 6/2/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1262	917 California Ave	Residential	5/29/03 - 6/4/03	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1270	210 Parmenter Dr	Residential	9/12/05 - 9/12/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1272	222 W. Larch St	Residential	3/28/05 - 3/28/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1281	210 W. Oak St	Residential	3/6/03 - 3/7/03	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1298	1104 California Ave	Residential	7/19/03 - 7/21/03	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	7E-03	5E-03 - 9E-03
1300	1108 California Ave	Residential	7/19/03 - 7/22/03	1/7 14%	1.2E-03	0.0E+00 - 8.5E-03	1E-02	4E-03 - 2E-02
1303	1521 Utah Ave	Residential	9/8/04 - 9/9/04	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1308	320 Idaho Ave	Residential	5/27/05 - 5/27/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	1E-02	1E-02 - 1E-02
1317	1248 Nevada Ave	Residential	10/23/03 - 10/23/03	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1318	1102 Nevada Ave	Residential	11/6/03 - 11/11/03	0/16 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1327	518 E. 4th St	Residential	6/10/04 - 6/10/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1334	1111 Montana Ave	Residential	9/23/04 - 9/28/04	0/5 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1339	65 Glenwood Ln	Residential	9/3/03 - 9/12/03	0/28 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1343	1204 California Ave	Residential	9/30/03 - 10/3/03	0/16 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 8E-03
1380	341 Parmenter Dr	Residential	5/30/03 - 6/7/03	1/31 3%	1.5E-04	0.0E+00 - 4.6E-03	5E-03	4E-03 - 1E-02
1383	1323 Cabinet Ave	Residential	5/9/05 - 5/12/05	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1419	408 Parmenter Ave	Residential	7/27/05 - 7/29/05	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1427	225 W. Cedar St	Residential	7/14/05 - 7/14/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1440	407 W. Balsam St - Pioneer Park Center	Park/campground	2/13/03 - 2/24/03	0/16 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1441	1409 Washington Ave	Residential	4/7/05 - 4/7/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1445	108 W. Cedar St	Residential	7/8/04 - 4/8/05	0/4 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1446	419 Indian Head Rd	Residential	7/25/05 - 7/27/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1451	504 Klatawah St	Residential	5/18/05 - 5/18/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1455	304 Norman Ave	Residential	7/29/05 - 7/29/05	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1465	70 Cedar St Ext	Residential	10/13/04 - 10/13/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1466	104 Cedar St Ext	Residential	8/26/05 - 8/29/05	0/2 0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1474	River Runs Through It	Residential	7/24/02 - 7/24/02	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03

**TABLE 14-1  
PERIMETER AIR SUMMARY STATISTICS BY PROPERTY**

Property ID	Address	Land Use	Sampling Date Range	Detection Frequency		Mean Air Conc. (s/cc)	Air Conc. Range (s/cc)	Mean Sensitivity (cc) <sup>-1</sup>	Sensitivity Range (cc) <sup>-1</sup>
1478	1118 Montana Ave	Residential	8/5/03 - 8/6/03	0/8	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1491	132 Mahoney Rd	Residential	6/8/04 - 6/8/04	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1503	131 W. Larch St	Residential	3/25/05 - 3/25/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1504	614 W. Balsam St	Residential	9/28/04 - 10/4/04	0/11	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 8E-03
1506	1411 Montana Ave	Residential	10/5/04 - 10/6/04	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	9E-03	4E-03 - 1E-02
1523	1408 Washington Ave	Residential	4/26/05 - 4/26/05	1/1	100%	4.8E-03	4.8E-03 - 4.8E-03	5E-03	5E-03 - 5E-03
1567	1322 Louisiana Ave	Residential	7/9/04 - 7/12/04	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1579	109 W. Oak St	Residential	8/20/03 - 8/21/03	0/8	0%	0.0E+00	0.0E+00 - 0.0E+00	9E-03	5E-03 - 3E-02
1583	310 W. Flower St	Residential	4/5/03 - 4/8/03	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1611	136 Cedar St Ext	Residential	8/2/05 - 8/12/05	1/3	33%	1.4E-03	0.0E+00 - 4.1E-03	4E-03	4E-03 - 5E-03
1635	1411 Louisiana Ave	Residential	10/4/04 - 10/4/04	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1643	418 Dome Mountain Ave	Residential	8/9/05 - 8/10/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1652	1511 Gallatin Ave	Residential	5/12/05 - 5/16/05	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	1E-02	5E-03 - 3E-02
1671	303 W. Thomas St - former Export Plant	Commercial	9/5/01 - 11/15/01	46/264	17%	2.6E-03	0.0E+00 - 3.7E-01	3E-03	8E-04 - 5E-02
1700	305 Dome Mountain Ave	Residential	8/15/05 - 8/15/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1703	1016 California Ave	Residential	9/8/05 - 9/8/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1704	1114 California Ave	Residential	9/13/05 - 9/13/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1705	201 W. Spruce St	Residential	6/9/05 - 6/9/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1744	321 Rustic Ave	Residential	7/26/05 - 7/28/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1746	416 Indian Head Rd	Residential	8/18/05 - 8/22/05	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1750	415 Dome Mountain Ave	Residential	8/11/05 - 8/12/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1816	503 Klatawah St	Residential	6/30/05 - 7/6/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
1843	18 Rainbow Ln	Residential	8/18/05 - 8/22/05	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
1864	49 Rainbow Ln	Residential	9/14/05 - 9/14/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1887	196 Garden Rd	Residential	5/2/05 - 5/3/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
1898	162 Conifer Rd	Residential	7/11/05 - 7/11/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1944	179 Forest Ave	Residential	8/25/05 - 8/25/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
1948	257 Conifer Rd	Residential	6/7/05 - 6/9/05	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
2012	768 Conifer Rd	Residential	8/30/05 - 8/30/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
2018	187 Vanderwood Rd	Residential	6/9/05 - 6/13/05	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
2048	644 N. Central Rd	Residential	8/2/05 - 8/2/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
2086	14 Pioneer Rd	Residential	7/13/05 - 7/15/05	1/3	33%	1.6E-03	0.0E+00 - 4.7E-03	5E-03	4E-03 - 5E-03
2224	1211 Nevada Ave	Residential	6/3/04 - 6/3/04	1/1	100%	4.1E-03	4.1E-03 - 4.1E-03	4E-03	4E-03 - 4E-03
2301	1120 California Ave	Residential	3/12/03 - 3/12/03	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
2302	1118 California Ave	Residential	3/8/03 - 3/10/03	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
2304	215 Montana Ave	Residential	8/13/04 - 8/17/04	0/6	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
2308	1209 Montana Ave	Residential	6/27/05 - 7/14/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
2327	1211 Washington Ave	Residential	4/15/05 - 4/15/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
2349	1304 Washington Ave	Residential	7/16/04 - 7/21/04	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
2355	192 Cedar St Ext	Residential	9/20/05 - 9/22/05	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
2444	43 Hamann Ave	Residential	4/10/03 - 4/12/03	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
2501	Screening Plant Rainy Creek	Residential	8/26/02 - 8/27/02	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	3E-03	2E-03 - 4E-03
2506	28 Rainbow Ln	Residential	8/9/05 - 8/15/05	0/5	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
2528	1021 Louisiana Ave	Residential	7/15/03 - 9/24/03	0/25	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
2620	292 Spencer Rd	Residential	10/11/04 - 10/12/04	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
2621	147 Pioneer Rd	Residential	6/17/05 - 6/22/05	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	3E-03 - 4E-03
2637	101 Cedar Meadow Rd	Residential	5/1/03 - 5/2/03	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
2641	807 Wisconsin Ave	Residential	10/14/04 - 10/14/04	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	7E-03	7E-03 - 7E-03
2642	304 Spencer Rd	Residential	10/5/04 - 10/7/04	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
2656	227 Quartz Rd	Residential	4/11/03 - 4/17/03	0/5	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
2781	1304 Airth Ave	Residential	5/23/05 - 5/23/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
3020	Rainy Creek Bank	Residential	9/24/02 - 10/24/02	15/104	14%	7.5E-04	0.0E+00 - 1.6E-02	4E-03	1E-03 - 5E-03
3049	480 Pioneer Rd	Residential	8/3/05 - 8/3/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
3071	4353 Champion Haul Rd	Residential	9/6/05 - 9/6/05	1/4	25%	1.2E-03	0.0E+00 - 4.9E-03	5E-03	5E-03 - 5E-03
3124	308 Parmenter Ave	Residential	9/14/05 - 9/16/05	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
3204	52 Crossroad Way	Residential	7/10/03 - 7/17/03	1/27	4%	1.6E-04	0.0E+00 - 4.2E-03	4E-03	4E-03 - 5E-03
3372	264 Vicks Dr	Residential	9/8/04 - 9/9/04	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
3375	196 Ski Rd	Residential	8/18/05 - 8/18/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
3379	494 Farm to Market Rd	Residential	5/5/05 - 5/5/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
3415	408 W. Oak St	Residential	10/13/04 - 10/21/04	0/6	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
3438	132 Upper Flower Creek Rd	Residential	2/6/03 - 2/6/03	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
3444	21 Wood St	Residential	7/19/05 - 7/19/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
3493	430 Terrace View Rd	Residential	7/21/04 - 7/26/04	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
3540	28 Evergreen St	Residential	7/11/05 - 7/11/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
3759	1325 Airstrip Rd	Residential	7/9/03 - 7/12/03	0/16	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
4004	Rainy Creek Rd/ Rainy Creek Banks	Commercial	10/7/02 - 10/24/02	1/15	7%	3.2E-04	0.0E+00 - 4.8E-03	4E-03	4E-03 - 5E-03

**TABLE 14-1  
PERIMETER AIR SUMMARY STATISTICS BY PROPERTY**

Property ID	Address	Land Use	Sampling Date Range	Detection Frequency		Mean Air Conc. (s/cc)	Air Conc. Range (s/cc)	Mean Sensitivity (cc) <sup>-1</sup>	Sensitivity Range (cc) <sup>-1</sup>
4025	1302 Airth Ave	Residential	9/3/03 - 9/15/03	1/31	3%	1.4E-04	0.0E+00 - 4.3E-03	4E-03	4E-03 - 5E-03
4136	525 Spencer Rd Ext - Granite Concrete Co. Inc.	Commercial	4/17/03 - 4/18/03	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
4171	525 Spencer Rd Ext	Commercial	4/21/03 - 4/21/03	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
4187	1609 Airstrip Rd	Residential	9/26/05 - 9/28/05	1/3	33%	3.1E-03	0.0E+00 - 9.3E-03	4E-03	4E-03 - 5E-03
4191	3111 Champion Haul Rd	Residential	9/22/04 - 9/27/04	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
4200	5000 Highway 37 N - former Screening Plant	Commercial	6/13/03 - 8/12/04	4/32	13%	6.0E-04	0.0E+00 - 4.9E-03	5E-03	3E-03 - 2E-02
4201	125 W. Cedar St	Residential	10/21/05 - 10/25/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
4215	569 E. Thomas St	Residential	10/21/04 - 11/3/04	0/3	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	3E-03 - 4E-03
4228	4297 Highway 2 W	Residential	10/4/04 - 10/11/04	0/6	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
4255	KDC Flyway	Industrial	7/15/01 - 8/5/04	192/829	23%	1.4E-03	0.0E+00 - 2.9E-02	3E-03	9E-04 - 9E-03
4310	119 W. Oak St	Residential	10/7/04 - 10/7/04	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
4334	6683 Farm to Market Rd	Residential	8/4/05 - 8/15/05	0/8	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
4403	1213 Louisiana Ave	Residential	9/21/04 - 9/24/04	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 5E-03
4529	Riverside Park	Park	10/1/03 - 11/13/03	4/119	3%	1.5E-04	0.0E+00 - 4.6E-03	4E-03	3E-03 - 5E-03
4532	46 Crossway Ave	Residential	10/4/05 - 10/5/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
4542	4526 Highway 2 W	Residential	5/19/05 - 5/19/05	0/4	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
4587	J. Neils Park	Park	5/10/05 - 9/20/05	0/17	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	4E-03 - 5E-03
4712	City of Libby Alley	Residential	8/30/05 - 8/31/05	3/30	10%	9.7E-05	0.0E+00 - 1.0E-03	3E-03	1E-03 - 4E-03
4801	Frontage S. of Rainy Creek Rd	Residential	11/17/03 - 11/18/03	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
4812	Rainy Creek Rd - S Frontage	Residential	11/10/03 - 8/20/04	2/49	4%	1.6E-04	0.0E+00 - 4.4E-03	4E-03	4E-03 - 5E-03
4813	Rainy Creek Rd - N Frontage	Residential	11/4/03 - 8/30/04	5/34	15%	9.2E-04	0.0E+00 - 8.7E-03	5E-03	4E-03 - 5E-03
4894	Highway 37 N	Borrow Source	6/2/05 - 6/17/05	1/34	3%	1.3E-04	0.0E+00 - 4.4E-03	4E-03	4E-03 - 5E-03
4897	1426 Idaho Ave	Residential	7/21/04 - 7/27/04	0/5	0%	0.0E+00	0.0E+00 - 0.0E+00	4E-03	4E-03 - 4E-03
4927	150 Mahoney Rd	Residential	10/14/04 - 10/14/04	1/1	100%	4.5E-03	4.5E-03 - 4.5E-03	5E-03	5E-03 - 5E-03
4941	4000 Pipe Creek Rd	Commercial	1/7/05 - 1/7/05	1/4	25%	7.0E-03	0.0E+00 - 2.8E-02	4E-03	2E-03 - 5E-03
4948	Highway 37 N - Right of Way	Roadway	5/23/05 - 5/23/05	0/10	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
4969	1309 Washington Ave	Residential	4/12/05 - 4/20/05	0/2	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
5344	277 Rustic Rd		8/3/05 - 8/3/05	0/1	0%	0.0E+00	0.0E+00 - 0.0E+00	5E-03	5E-03 - 5E-03
5384	404 E. 6th St	Residential	6/14/05 - 6/16/05	1/3	33%	1.6E-03	0.0E+00 - 4.7E-03	5E-03	4E-03 - 5E-03

Reported air concentrations based on total LA structures by TEM.

**TABLE 14-2  
PERIMETER AIR SUMMARY STATISTICS BY YEAR**

Year	Detection Frequency		Analysis Sensitivity (cc) <sup>-1</sup>		TEM Total LA Air Conc (s/cc)	
			Mean	Range (Min-Max)	Mean	Range (Min-Max)
2000	176/1412	12%	4.1E-03	1.3E-03 - 1.4E-02	9.8E-04	0.0E+00 - 6.9E-02
2001	942/3973	24%	3.5E-03	4.0E-04 - 1.2E-01	2.1E-03	0.0E+00 - 5.0E-01
2002	57/535	11%	4.1E-03	1.3E-03 - 3.1E-02	6.6E-04	0.0E+00 - 3.7E-02
2003	37/1509	2%	4.7E-03	1.7E-03 - 3.0E-02	1.3E-04	0.0E+00 - 9.6E-03
2004	25/555	5%	4.3E-03	1.7E-03 - 1.5E-02	2.2E-04	0.0E+00 - 1.2E-02
2005	23/526	4%	4.7E-03	9.5E-04 - 4.0E-02	2.6E-04	0.0E+00 - 2.8E-02
2000-2002	1175/5920	20%	3.7E-03	4.0E-04 - 1.2E-01	1.7E-03	0.0E+00 - 5.0E-01
2003-2005	85/2590	3%	4.6E-03	9.5E-04 - 4.0E-02	1.7E-04	0.0E+00 - 2.8E-02
all years	1260/8510	15%	4.0E-03	4.0E-04 - 1.2E-01	1.2E-03	0.0E+00 - 5.0E-01

Reported air concentrations based on total LA structures by TEM.

**TABLE 14-3  
STRATIFICATION OF SELECTED PROPERTIES  
FOR RE-ANALYSIS OF PERIMETER AIR SAMPLES**

LA Level in Soil	Extent of Soil Removal	
	“Small” (< 1000 cy)	“Large” (≥ 1000 cy)
“Low” (< 1%)	<p><b><u>Group A:</u></b> 312 Main Ave 341 Parmenter Dr 3647 Highway 2 S 507 E. Lincoln Blvd 610 Michigan Ave</p>	<p><b><u>Group C:</u></b> 102 Mineral Ave - Second Hand Store 2293 Kootenai River Rd KDC Flyway Riverside Park</p>
“High” (≥ 1%)	<p><b><u>Group B:</u></b> 123 Hamann Ave 1573 Kootenai River Rd 319 Norman Ave 500 Jay Effar Rd 781 Terrace View Rd</p>	<p><b><u>Group D:</u></b> 101 Ski Rd - Libby Middle School 150 Education Way - Libby High School 247 Indian Head Rd - Plummer Elementary School 303 W. Thomas St - former Export Plant BNSF Libby Railyard Champion Haul Rd</p>

cy = cubic yards

**TABLE 14-4  
PERIMETER AIR SAMPLE SUMMARY FOR 20 PROPERTIES**

Group	Property Address	Original Results (N=1,221 samples)						
		Sampling Date Range	Detection Frequency	Total LA Conc. (s/cc)	Air Conc. Range (s/cc)	Mean Sensitivity (cc) <sup>-1</sup>	Sensitivity Range (cc) <sup>-1</sup>	
A	312 Main Ave	9/30/03-10/2/03	0/6 0%	0.0E+00	0.0E+00 - 0.0E+00	4.4E-03	4.2E-03 - 4.6E-03	
	341 Parmenter Dr	5/30/03-6/7/03	1/31 3%	1.5E-04	0.0E+00 - 4.6E-03	5.3E-03	3.6E-03 - 1.3E-02	
	3647 Highway 2 S	7/16/03-7/22/03	0/23 0%	0.0E+00	0.0E+00 - 0.0E+00	4.5E-03	3.4E-03 - 4.9E-03	
	507 E. Lincoln Blvd	4/20/04-4/23/04	0/3 0%	0.0E+00	0.0E+00 - 0.0E+00	4.6E-03	4.6E-03 - 4.6E-03	
	610 Michigan Ave	5/4/04-5/4/04	0/1 0%	0.0E+00	0.0E+00 - 0.0E+00	4.1E-03	4.1E-03 - 4.1E-03	
	All properties in Group A			1/64 2%	7.3E-05	0.0E+00 - 4.6E-03	4.9E-03	3.4E-03 - 1.3E-02
B	123 Hamann Ave	9/4/02-9/18/02	1/25 4%	1.9E-04	0.0E+00 - 4.8E-03	3.8E-03	1.7E-03 - 4.8E-03	
	1573 Kootenai River Rd	8/14/03-8/20/03	0/19 0%	0.0E+00	0.0E+00 - 0.0E+00	4.3E-03	4.0E-03 - 4.8E-03	
	319 Norman Ave	9/10/02-10/1/02	1/44 2%	3.7E-05	0.0E+00 - 1.6E-03	3.1E-03	1.6E-03 - 5.0E-03	
	500 Jay Effar Rd	8/15/02-8/20/02	0/16 0%	0.0E+00	0.0E+00 - 0.0E+00	6.2E-03	1.3E-03 - 2.4E-02	
	781 Terrace View Rd	8/28/02-9/9/02	0/20 0%	0.0E+00	0.0E+00 - 0.0E+00	2.2E-03	9.4E-05 - 2.5E-03	
	All properties in Group B			2/124 2%	5.2E-05	0.0E+00 - 4.8E-03	3.7E-03	9.4E-05 - 2.4E-02
C	102 Mineral Ave - Second Hand Store	3/19/04-5/18/04	0/29 0%	0.0E+00	0.0E+00 - 0.0E+00	4.5E-03	3.5E-03 - 6.2E-03	
	2293 Kootenai River Rd	6/16/03-8/7/03	1/79 1%	5.9E-05	0.0E+00 - 4.7E-03	4.5E-03	3.0E-03 - 6.2E-03	
	KDC Flyway	7/15/04-8/5/04	0/20 0%	0.0E+00	0.0E+00 - 0.0E+00	4.4E-03	4.1E-03 - 5.3E-03	
	Riverside Park	10/1/03-11/13/03	2/119 2%	7.2E-05	0.0E+00 - 4.4E-03	4.5E-03	3.4E-03 - 4.9E-03	
	All properties in Group C			3/247 1%	5.4E-05	0.0E+00 - 4.7E-03	4.5E-03	3.0E-03 - 6.2E-03
D	101 Ski Rd - Libby Middle School	8/9/01-8/26/04	10/47 21%	1.3E-03	0.0E+00 - 2.7E-02	3.4E-03	9.7E-05 - 4.7E-03	
	150 Education Way - Libby High School	7/26/01-8/29/01	20/239 8%	2.6E-04	0.0E+00 - 9.4E-03	3.3E-03	4.0E-04 - 7.1E-03	
	247 Indian Head Rd - Plummer Elementary School	7/10/00-10/19/02	2/57 4%	5.7E-05	0.0E+00 - 1.9E-03	2.8E-03	9.5E-05 - 1.6E-02	
	303 W. Thomas St - former Export Plant	9/5/01-10/24/01	47/236 20%	2.9E-03	0.0E+00 - 3.7E-01	2.8E-03	7.6E-04 - 5.4E-02	
	BNSF Libby Railyard	8/28/03-10/20/04	2/194 1%	6.3E-05	0.0E+00 - 8.3E-03	4.0E-03	1.7E-03 - 6.2E-03	
	Champion Haul Rd	10/24/01-8/26/02	0/13 0%	0.0E+00	0.0E+00 - 0.0E+00	4.1E-03	2.3E-03 - 4.9E-03	
	All properties in Group D			81/786 10%	1.1E-03	0.0E+00 - 3.7E-01	3.3E-03	9.5E-05 - 5.4E-02
All properties in Groups A-D			87/1221 7%	7.0E-04	0.0E+00 - 3.7E-01	3.7E-03	9.4E-05 - 5.4E-02	

Reported air concentrations based on total LA structures by TEM.

- 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)

**TABLE 14-5  
LIST OF PERIMETER AIR SAMPLES SELECTED FOR REANALYSIS**

Group	Soil Level	Removal Size	Sample #	Index ID	Property Address	Total LA Conc. (s/cc)
A	Low (<1%)	Small (<1000 cy)	1	1R-23353	312 Main Ave	non-detect
			2	1R-20293	341 Parmenter Dr	non-detect
			3	1R-20474	341 Parmenter Dr	non-detect
			4	1R-21709	3647 Highway 2 S	4.7E-03
			5	1R-23932	507 E. Lincoln Blvd	non-detect
B	High (>1%)	Small (<1000 cy)	6	1R-15255	123 Hamann Ave	9.5E-03
			7	1R-22518	1573 Kootenai River Rd	4.3E-03
			8	1R-15326	319 Norman Ave	non-detect
			9	1R-15481*	319 Norman Ave	non-detect
			10	1R-14423	500 Jay Effar Rd	non-detect
			11	1R-14948	781 Terrace View Rd	non-detect
C	Low (<1%)	Large (>1000 cy)	12	1R-23944	102 Mineral Ave - Second Hand Store	non-detect
			13	1R-21042	2293 Kootenai River Rd	4.0E-03
			14	1R-25578	KDC Flyway	non-detect
			15	1R-24103	Riverside Park	non-detect
D	High (>1%)	Large (>1000 cy)	16	1R-08094	101 Ski Rd - Libby Middle School	non-detect
			17	1R-06643	150 Education Way - Libby High School	2.0E-03
			18	1R-05992	247 Indian Head Rd - Plummer Elementary School	3.9E-03
			19	1R-06211	247 Indian Head Rd - Plummer Elementary School	non-detect
			20	1R-10157**	303 W. Thomas St - former Export Plant	non-detect

\* This sample was incorrectly classified as Group C in SQAPP Table 5 (revised).

\*\* This sample replaced BN-00441 from Burlington Northern Railyard (not enough filter was available to perform re-analysis).

**TABLE 14-6**  
**SUMMARY STATISTICS FOR PERIMETER AIR SAMPLES SELECTED FOR RE-ANALYSIS**

**PANEL A: ORIGINAL RESULTS**

Group	Total Samples	Total Detects	Detection Frequency	TEM LA Air Concentration (s/cc)		Analysis Sensitivity (cc) <sup>-1</sup>	
				Mean	Range (Min-Max)	Mean	Range (Min-Max)
A	5	1	1/5	9.4E-04	0.0E+00 - 4.7E-03	4.6E-03	4.2E-03 - 4.8E-03
B	6	2	2/6	2.3E-03	0.0E+00 - 9.5E-03	3.8E-03	2.1E-03 - 4.8E-03
C	4	1	1/4	9.9E-04	0.0E+00 - 4.0E-03	4.3E-03	4.0E-03 - 4.6E-03
D	5	2	2/5	1.2E-03	0.0E+00 - 4.4E-03	2.3E-03	1.4E-03 - 4.6E-03
ALL	20	6	6/20	1.4E-03	0.0E+00 - 9.5E-03	3.7E-03	1.4E-03 - 4.8E-03

**PANEL B: RE-ANALYSIS RESULTS <sup>(a)</sup>**

Group	Total Samples	Total Detects	Detection Frequency	TEM LA Air Concentration (s/cc)		Analysis Sensitivity (cc) <sup>-1</sup>	
				Mean	Range (Min-Max)	Mean	Range (Min-Max)
A	5	1	1/5	1.8E-04	0.0E+00 - 0.0E+00	8.7E-04	8.4E-04 - 8.9E-04
B	6	3	3/6	5.7E-04	0.0E+00 - 1.0E-03	8.1E-04	7.0E-04 - 8.9E-04
C	4	2	2/4	6.5E-04	0.0E+00 - 1.1E-03	8.6E-04	8.4E-04 - 8.8E-04
D	5	4	4/5	6.7E-04	0.0E+00 - 1.2E-03	7.1E-04	6.3E-04 - 8.8E-04
ALL	20	10	10/20	5.1E-04	0.0E+00 - 1.2E-03	8.1E-04	6.3E-04 - 8.9E-04

<sup>(a)</sup> Pooled across the original analysis results and the supplemental re-analysis results.

**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)

**TABLE 14-7  
COMPARISON OF LA LEVELS IN PERIMETER AND AMBIENT AIR**

Air Sample Type	Group	Detection Frequency		Mean TEM LA Air Conc. (s/cc)	Air Conc. Range (s/cc)	Mean Sensitivity (cc) <sup>-1</sup>	Sensitivity Range (cc) <sup>-1</sup>
Ambient	--	16/33	48%	2.1E-04	0.0E+00 - 1.2E-04	1.0E-04	9.7E-05 - 1.2E-04
Perimeter	A	1/5	20%	1.8E-04	0.0E+00 - 0.0E+00	8.7E-04	8.4E-04 - 8.9E-04
	B	3/6	50%	5.7E-04	0.0E+00 - 1.0E-03	8.1E-04	7.0E-04 - 8.9E-04
	C	2/4	50%	6.5E-04	0.0E+00 - 1.1E-03	8.6E-04	8.4E-04 - 8.8E-04
	D	4/5	80%	6.7E-04	0.0E+00 - 1.2E-03	7.1E-04	6.3E-04 - 8.8E-04
	All	10/20	50%	5.1E-04	0.0E+00 - 1.2E-03	8.1E-04	6.3E-04 - 8.9E-04

Reported air concentrations based on total LA structures by TEM.

- 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)