Appendix G
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Table G-1
ProUCL Data Analysis Result
Adult Activities
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

	ATV		Motorcycle		SUV		Camping	Hiking
	All Positions	Lead Position Only	All Positions	Lead Position Only	All Positions	Lead Position Only		
Number of Valid Data	18	9	33	9	29	15	11	15
Number of Detected Data	18	9	29	8	27	14	10	11
Minimum Detected	0.0044	0.0044	0.0099	0.0099	0.0099	0.0099	0.0045	0.0042
Maximum Detected	2.0392	0.1960	1.2822	0.0938	0.6724	0.2860	0.6495	0.0510
Mean of Detected	0.3174	0.0624	0.3071	0.0329	0.1841	0.1040	0.0874	0.0183
Standard Deviation of Detected	0.5005	0.0655	0.3109	0.0276	0.1764	0.0780	0.1983	0.0153
Distribution Assumed	Gamma	Gamma	Gamma	Gamma	Gamma	Normal	Lognormal	Gamma
Suggested UCL to Use	95% Approximate Gamma UCL	95% Approximate Gamma UCL	95% KM (Chebyshev) UCL	95% KM (BCA) UCL	95% KM (Chebyshev) UCL	95% KM (t) UCL	97.5% KM (Chebyshev) UCL	95% KM (Percentile Bootstrap) UCL
UCL	0.6070	0.1330	0.5045	0.0469	0.3146	0.1340	0.4390	0.0209

	Ambient			Fence Building	Sleeping*	Vacuum (HEPA and Regular)	Vehicle Wash (Powerspray and Hose)
	Staging at Oak Flat	Staging at Section 8	Staging in CCMA (Staging Areas 2 and 6)				
Number of Valid Data	13	11	16	9	5	10	11
Number of Detected Data	10	5	14	7	0	9	10
Minimum Detected	0.0005	0.0003	0.0005	0.0124	NA	0.0078	0.0098
Maximum Detected	0.0252	0.0055	0.0061	0.2648	NA	0.1446	0.5295
Mean of Detected	0.0050	0.0027	0.0029	0.0619	0.0003	0.0541	0.1466
Standard Deviation of Detected	0.0074	0.0023	0.0020	0.0900	NA	0.0473	0.1856
Distribution Assumed	Gamma	Gamma	Gamma	Lognormal	NA	Gamma	Gamma
Suggested UCL to Use	95% KM (Chebyshev) UCL	95% KM (Percentile Bootstrap) UCL	95% KM (BCA) UCL	95% KM (BCA) UCL	NA	95% KM (Percentile Bootstrap) UCL	95% KM (Chebyshev) UCL
UCL	0.0122	0.0031	0.0034	0.1093	0.0005	0.0737	0.3731

* None of the sleeping camper data were detected. The minimum and maximum analysis sensitivities were used as the central tendency and the UCL respectively.

Table G-2
ProUCL Data Analysis Result
Child Activities
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

	ATV	Camping	Hiking	Motorcycle	SUV
Number of Valid Data	17	12	13	29	25
Number of Detected Data	17	11	12	28	24
Minimum Detected	0.0091	0.0046	0.0049	0.0100	0.0050
Maximum Detected	1.2765	0.2843	0.0749	1.2277	0.9788
Mean of Detected	0.4404	0.0460	0.0260	0.3671	0.2605
Standard Deviation of Detected	0.3958	0.0802	0.0220	0.3383	0.3101
Distribution Assumed	Gamma	Lognormal	Gamma	Gamma	Gamma
Suggested UCL to Use	95% Approximate Gamma UCL	97.5% KM (Chebyshev) UCL	95% KM (Chebyshev) UCL	95% KM (Chebyshev) UCL	95% KM (Chebyshev) UCL
UCL	0.7414	0.1826	0.0509	0.6292	0.5189

Table G-3
ProUCL Data Analysis Result
Weather Conditions
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

	Adult		
	Dry	**Moist**	**Wet**
Number of Valid Data	45	36	14
Number of Detected Data	42	32	10
Minimum Detected	0.0042	0.0050	0.0046
Maximum Detected	1.2820	2.0390	0.1480
Mean of Detected	0.2360	0.2870	0.0408
Standard Deviation of Detected	0.2860	0.3880	0.0419
Distribution Assumed	Gamma	Gamma	Gamma
Suggested UCL to Use	95% KM (Chebyshev) UCL	95% KM (Chebyshev) UCL	95% KM (Chebyshev) UCL
UCL	0.4040	0.5390	0.0763

	Children		
	Dry	**Moist**	**Wet**
Number of Valid Data	43	32	9
Number of Detected Data	43	29	8
Minimum Detected	0.0049	0.0149	0.0050
Maximum Detected	1.2280	1.2770	0.1460
Mean of Detected	0.2660	0.4230	0.0280
Standard Deviation of Detected	0.2950	0.3910	0.0479
Distribution Assumed	Gamma	Gamma	No Discernable Distribution
Suggested UCL to Use	95% Approximate Gamma UCL	95% KM (Chebyshev) UCL	97.5% KM (Chebyshev) UCL
UCL	0.3650	0.6990	0.1210

Table G-4
ProUCL Data Analysis Result
Riding Positions
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

	Adult		
	Lead	**First Trailing**	**Second Trailing**
Number of Valid Data	41	37	17
Number of Detected Data	35	34	16
Minimum Detected	0.0044	0.0042	0.0598
Maximum Detected	0.2860	0.7980	2.0390
Mean of Detected	0.0673	0.2480	0.5630
Standard Deviation of Detected	0.0683	0.2310	0.5170
Distribution Assumed	Gamma	Gamma	Gamma
Suggested UCL to Use	95% KM (Chebyshev) UCL	95% KM (Chebyshev) UCL	95% KM (Chebyshev) UCL
UCL	0.1040	0.3940	1.0790

	Children		
	Lead	**First Trailing**	**Second Trailing**
Number of Valid Data	36	31	17
Number of Detected Data	33	31	17
Minimum Detected	0.0049	0.0050	0.0648
Maximum Detected	0.4220	1.2770	1.2280
Mean of Detected	0.0991	0.3830	0.5410
Standard Deviation of Detected	0.1040	0.3990	0.3130
Distribution Assumed	Gamma	Approximate Gamma	Normal
Suggested UCL to Use	95% KM (Chebyshev) UCL	95% Approximate Gamma UCL	95% Student's-t UCL
UCL	0.1660	0.5950	0.6730

Table G-5
ProUCL Data Analysis Result
Window Positions
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

	Open	Closed
Number of Valid Data	14	17
Number of Detected Data	14	17
Minimum Detected	0.0190	0.0072
Maximum Detected	0.9790	0.4800
Mean of Detected	0.2230	0.1350
Standard Deviation of Detected	0.2910	0.1320
Distribution Assumed	Gamma	Gamma
Suggested UCL to Use	95% Approximate Gamma UCL	95% Approximate Gamma UCL
UCL	0.3990	0.2100

Table G-6
Exposure Assumptions - Adult (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Parameter		One-day Per Year Exposure		Reasonable Maximum Exposure (RME)		High Estimate Exposure	
		Motorcyclist	Source	Motorcyclist	Source	Motorcyclist	Source
Exposure Frequency (days/year)	EF	1	PTI, 1992	5 (60 for worker scenarios)	PTI, 1992; EPA, 2008	12 (120 for worker scenarios)	PTI, 1992; EPA, 2008
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		ATV Rider		**ATV Rider**		**ATV Rider**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5 (60 for worker scenarios)	PTI, 1992; EPA, 2008	12 (120 for worker scenarios)	PTI, 1992; EPA, 2008
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		SUV Driver		**SUV Driver**		**SUV Driver**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5 (60 for worker scenarios)	PTI, 1992; EPA, 2008	12 (120 for worker scenarios)	PTI, 1992; EPA, 2008
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Hiker		**Hiker**		**Hiker**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Camper		**Camper**		**Camper**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Sleeping Camper		**Sleeping Camper**		**Sleeping Camper**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	8	EPA, 2007	8	EPA, 2007	8	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Vehicle Washer/Vacuumer		**Vehicle Washer/Vacuumer**		**Vehicle Washer/Vacuumer**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5 (60 for worker scenarios)	PTI, 1992; EPA, 2008	12 (120 for worker scenarios)	PTI, 1992; EPA, 2008
Exposure Time for Inhalation of Asbestos (hours/day)	ET	1	EPA, 2007	1	EPA, 2005	1	EPA, 2005
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989

Table G-6
Exposure Assumptions - Adult (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Parameter		One-day Per Year Exposure	Source	Reasonable Maximum Exposure (RME)	Source	High Estimate Exposure	Source
		Staging		**Staging**		**Staging**	
Exposure Frequency (days/year)	EF	1	EPA, 2007	5 (60 for worker scenarios)	PTI, 1992; EPA, 2008	12 (120 for worker scenarios)	PTI, 1992; EPA, 2008
Exposure Time for inhalation of asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Fence Builder/Repair		**Fence Builder/Repair**		**Fence Builder/Repair**	
Exposure Frequency (days/year)	EF	1	EPA, 2007	5 (60 for worker scenarios)	PTI, 1992; EPA, 2008	12 (120 for worker scenarios)	PTI, 1992; EPA, 2008
Exposure Time for Inhalation of Asbestos (hours/day)	ET	3	EPA, 2007	3	EPA, 2007	3	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989

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Table G-7
Exposure Assumptions - Child
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Parameter		One-day Per Year Exposure		Reasonable Maximum Exposure (RME)		High Estimate Exposure	
		Motorcyclist	Source	Motorcyclist	Source	Motorcyclist	Source
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	PTI, 1992
Exposure Duration (years)	ED	12	EPA, 1989	12	EPA, 1989	12	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		ATV Rider		**ATV Rider**		**ATV Rider**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	PTI, 1992
Exposure Duration (years)	ED	12	EPA, 1989	12	EPA, 1989	12	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		SUV Rider		**SUV Rider**		**SUV Rider**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	PTI, 1992
Exposure Duration (years)	ED	12	EPA, 1989	12	EPA, 1989	12	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Hiker		**Hiker**		**Hiker**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	12	EPA, 1989	12	EPA, 1989	12	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Camper		**Camper**		**Camper**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2005
Exposure Duration (years)	ED	12	EPA, 1989	12	EPA, 1989	12	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Sleeping Camper		**Sleeping Camper**		**Sleeping Camper**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	8	EPA, 2007	8	EPA, 2007	8	EPA, 2007
Exposure Duration (years)	ED	12	EPA, 1989	12	EPA, 1989	12	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Vehicle Washer/Vacuumer		**Vehicle Washer/Vacuumer**		**Vehicle Washer/Vacuumer**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	0.5	EPA, 2007	0.5	EPA, 2007	0.5	EPA, 2007
Exposure Duration (years)	ED	12	EPA, 1989	12	EPA, 1989	12	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989

Table G-7
Exposure Assumptions - Child
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Parameter		One-day Per Year Exposure	Source	Reasonable Maximum Exposure (RME)	Source	High Estimate Exposure	Source
		Staging		**Staging**		**Staging**	
Exposure Frequency (days/year)	EF	1	EPA, 2007	5	EPA, 2007	12	PTI, 1992
Exposure Time for inhalation of asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	12	EPA, 1989	12	EPA, 1989	12	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989

EPA, 1989. Risk Assessment Guidance for Superfund (RAGS), Volume 1, Human Health Evaluation Manual (Part A), Interim Final. EPA/540-1-89/002. December 15.
EPA, 2007 (Region 9, Professional Judgment)
PTI Environmental Services. 1992. Human Health Risk Assessment for the Clear Creek Management Area.
Prepared for: U.S. Department of the Interior, Bureau of Land Management, Hollister, CA. Bellevue, Washington. September.

Table G-8
Exposure Assumptions - Adult (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Parameter		One-day Per Year Exposure		Reasonable Maximum Exposure (RME)		High Estimate Exposure	
		Motorcyclist	Source	Motorcyclist	Source	Motorcyclist	Source
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	18	EPA, 1989	18	EPA, 1989	18	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		ATV Rider		**ATV Rider**		**ATV Rider**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	18	EPA, 1989	18	EPA, 1989	18	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		SUV Driver		**SUV Driver**		**SUV Driver**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	18	EPA, 1989	18	EPA, 1989	18	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Hiker		**Hiker**		**Hiker**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	18	EPA, 1989	18	EPA, 1989	18	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Camper		**Camper**		**Camper**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	18	EPA, 1989	18	EPA, 1989	18	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Sleeping Camper		**Sleeping Camper**		**Sleeping Camper**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	8	EPA, 2007	8	EPA, 2007	8	EPA, 2007
Exposure Duration (years)	ED	18	EPA, 1989	18	EPA, 1989	18	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989
		Vehicle Washer/Vacuumer		**Vehicle Washer/Vacuumer**		**Vehicle Washer/Vacuumer**	
Exposure Frequency (days/year)	EF	1	PTI, 1992	5	PTI, 1992	12	PTI, 1992
Exposure Time for Inhalation of Asbestos (hours/day)	ET	1	EPA, 2007	1	EPA, 2005	1	EPA, 2005
Exposure Duration (years)	ED	18	EPA, 1989	18	EPA, 1989	18	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989

Table G-8
Exposure Assumptions - Adult (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Parameter		One-day Per Year Exposure		Reasonable Maximum Exposure (RME)		High Estimate Exposure	
			Source		Source		Source
		Staging		Staging		Staging	
Exposure Frequency (days/year)	EF	1	EPA, 2007	5	EPA, 2007	12	PTI, 1992
Exposure Time for inhalation of asbestos (hours/day)	ET	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007	Scenario-specific	EPA, 2007
Exposure Duration (years)	ED	30	EPA, 1989	30	EPA, 1989	30	EPA, 1989
Averaging Time for Carcinogens (yr)	ATc	70	EPA, 1989	70	EPA, 1989	70	EPA, 1989

EPA, 1989. Risk Assessment Guidance for Superfund (RAGS), Volume 1, Human Health Evaluation Manual (Part A), Interim Final. EPA/540-1-89/002. December 15.
EPA, 2007 (Region 9, Professional Judgment)
PTI Environmental Services. 1992. Human Health Risk Assessment for the Clear Creek Management Area.
Prepared for: U.S. Department of the Interior, Bureau of Land Management, Hollister, CA. Bellevue, Washington. September

Table G-9
Carcinogenic Toxicity Values
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Constituent	Carcinogenic WOE Classification	IRIS Inhalation Carcinogenic Unit Risk $[f/ml]^{-1}$	Inhalation Unit Risk Source	OEHHA Inhalation Carcinogenic Unit Risk $[f/ml]^{-1}$	Inhalation Unit Risk Source
Asbestos [1]	A	0.23	IRIS	1.9	OEHHA

Notes:
EPA Group: A - Human carcinogen
IRIS: Integrated Risk Information System. EPA 2004.
OEHHA: Office of Environmental Health Hazard Assessment.

[1] The unit risk should not be used if the air concentrations exceed 4E-02 fibers/ml, since above this concentration the slope factor may differ from that stated (IRIS, USEPA, 2004). In this risk assessment the calculated Chronic Exposure Concentrations are compared to 4E-02 fibers/ml.

Table G-10
Risk Calculation Worksheet - Carcinogenic Effects (Ambient Data) -
One-day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Adult
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	***Staging in CCMA (Staging in Areas #2 and #6)***						
	Mean Concentration	2.90E-03	1.14E-06	2.30E-01	2.61E-07	1.90E+00	2.16E-06
	95UCL	3.40E-03	1.33E-06	2.30E-01	3.06E-07	1.90E+00	2.53E-06
	Oak Flats Campground						
	Mean Concentration	5.00E-03	1.96E-06	2.30E-01	4.50E-07	1.90E+00	3.72E-06
	95UCL	1.22E-02	4.77E-06	2.30E-01	1.10E-06	1.90E+00	9.07E-06
	Staging at Section 8						
	Mean Concentration	2.70E-03	1.06E-06	2.30E-01	2.43E-07	1.90E+00	2.01E-06
	95UCL	3.10E-03	1.21E-06	2.30E-01	2.79E-07	1.90E+00	2.31E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-11
Risk Calculation Worksheet - Carcinogenic Effects (Ambient Data) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Adult
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	***Staging in CCMA (Staging in Areas #2 and #6)***						
	Mean Concentration	2.90E-03	5.68E-06	2.30E-01	1.31E-06	1.90E+00	1.08E-05
	95UCL	3.40E-03	6.65E-06	2.30E-01	1.53E-06	1.90E+00	1.26E-05
	Oak Flats Campground						
	Mean Concentration	5.00E-03	9.78E-06	2.30E-01	2.25E-06	1.90E+00	1.86E-05
	95UCL	1.22E-02	2.39E-05	2.30E-01	5.49E-06	1.90E+00	4.54E-05
	Staging at Section 8						
	Mean Concentration	2.70E-03	5.28E-06	2.30E-01	1.22E-06	1.90E+00	1.00E-05
	95UCL	3.10E-03	6.07E-06	2.30E-01	1.40E-06	1.90E+00	1.15E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-12

Risk Calculation Worksheet - Carcinogenic Effects (Ambient Data) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Adult
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	***Staging in CCMA (Staging in Areas #2 and #6)***						
	Mean Concentration	2.90E-03	1.36E-05	2.30E-01	3.13E-06	1.90E+00	2.59E-05
	95UCL	3.40E-03	1.60E-05	2.30E-01	3.67E-06	1.90E+00	3.03E-05
	Oak Flats Campground						
	Mean Concentration	5.00E-03	2.35E-05	2.30E-01	5.40E-06	1.90E+00	4.46E-05
	95UCL	1.22E-02	5.73E-05	2.30E-01	1.32E-05	1.90E+00	1.09E-04
	Staging at Section 8						
	Mean Concentration	2.70E-03	1.27E-05	2.30E-01	2.92E-06	1.90E+00	2.41E-05
	95UCL	3.10E-03	1.46E-05	2.30E-01	3.35E-06	1.90E+00	2.77E-05

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-13a

Summary of Adult Excess Lifetime Cancer Risk Results (Mean)
CCMA: Within Asbestos Hazardous Zone and Outside Asbestos Hazardous Zone, Asbestos Ambient Air Concentrations - Adult
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Receptor	One-day Per Year Exposure	Reasonable Maximum Exposure (RME)	High Estimate Exposure
	Cancer Risk	Cancer Risk	Cancer Risk
IRIS Unit Risk			
Staging in CCMA (Staging in Areas #2 and #6)	3E-07	1E-06	**3E-06**
Oak Flat Campground	5E-07	**2E-06**	**5E-06**
Staging at Section 8	2E-07	1E-06	**3E-06**
OEHHA Unit Risk			
Staging in CCMA (Staging in Areas #2 and #6)	**2E-06**	**1E-05**	**3E-05**
Oak Flat Campground	**4E-06**	**2E-05**	**4E-05**
Staging at Section 8	**2E-06**	**1E-05**	**2E-05**

Table G-13b

Summary of Adult Excess Lifetime Cancer Risk Results (95UCL)
CCMA: Within Asbestos Hazardous Zone and Outside Asbestos Hazardous Zone, Asbestos Ambient Air Concentrations - Adult
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Receptor	One-day Per Year Exposure	Reasonable Maximum Exposure (RME)	High Estimate Exposure
	Cancer Risk	Cancer Risk	Cancer Risk
IRIS Unit Risk			
Staging in CCMA (Staging in Areas #2 and #6)	3E-07	**2E-06**	**4E-06**
Oak Flat Campground	1E-06	**5E-06**	**1E-05**
Staging at Section 8	3E-07	1E-06	**3E-06**
OEHHA Unit Risk			
Staging in CCMA (Staging in Areas #2 and #6)	**3E-06**	**1E-05**	**3E-05**
Oak Flat Campground	**9E-06**	**5E-05**	**1E-04**
Staging at Section 8	**2E-06**	**1E-05**	**3E-05**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04
EF = 1 day/yr
ET = 8 hours/day
ED = 30 years
ATc = 613,200 hours

Table G-14
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (6 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	9.01E-05	2.30E-01	2.07E-05	1.90E+00	1.71E-04
	95UCL	5.05E-01	1.48E-04	2.30E-01	3.41E-05	1.90E+00	2.81E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-15
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (6 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	4.51E-04	2.30E-01	1.04E-04	1.90E+00	8.56E-04
	95UCL	5.05E-01	7.40E-04	2.30E-01	1.70E-04	1.90E+00	1.41E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-16
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (6 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	1.08E-03	2.30E-01	2.49E-04	1.90E+00	2.06E-03
	95UCL	5.05E-01	1.78E-03	2.30E-01	4.09E-04	1.90E+00	3.38E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-17
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (5 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	7.51E-05	2.30E-01	1.73E-05	1.90E+00	1.43E-04
	95UCL	5.05E-01	1.23E-04	2.30E-01	2.84E-05	1.90E+00	2.34E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-18
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (5 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	3.76E-04	2.30E-01	8.64E-05	1.90E+00	7.14E-04
	95UCL	5.05E-01	6.17E-04	2.30E-01	1.42E-04	1.90E+00	1.17E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-19

Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (5 hours) - High Estimate Exposure (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	9.01E-04	2.30E-01	2.07E-04	1.90E+00	1.71E-03
	95UCL	5.05E-01	1.48E-03	2.30E-01	3.41E-04	1.90E+00	2.81E-03

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-20
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist Lead Position (4 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	4
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.29E-02	6.44E-06	2.30E-01	1.48E-06	1.90E+00	1.22E-05
	95UCL	4.69E-02	9.18E-06	2.30E-01	2.11E-06	1.90E+00	1.74E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-21

Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist Lead Position (4 hours) - Reasonable Maximum Exposure (RME)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	60
Exposure Time for inhalation (hours/day)	ET	4
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.29E-02	3.86E-04	2.30E-01	8.88E-05	1.90E+00	7.34E-04
	95UCL	4.69E-02	5.51E-04	2.30E-01	1.27E-04	1.90E+00	1.05E-03

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-22

Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist Lead Position (4 hours) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	120
Exposure Time for inhalation (hours/day)	ET	4
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.29E-02	7.73E-04	2.30E-01	1.78E-04	1.90E+00	1.47E-03
	95UCL	4.69E-02	1.10E-03	2.30E-01	2.53E-04	1.90E+00	2.09E-03

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-23

Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (3 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	4.51E-05	2.30E-01	1.04E-05	1.90E+00	8.56E-05
	95UCL	5.05E-01	7.40E-05	2.30E-01	1.70E-05	1.90E+00	1.41E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-24
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (3 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	2.25E-04	2.30E-01	5.18E-05	1.90E+00	4.28E-04
	95UCL	5.05E-01	3.70E-04	2.30E-01	8.52E-05	1.90E+00	7.03E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-25
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (3 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	5.41E-04	2.30E-01	1.24E-04	1.90E+00	1.03E-03
	95UCL	5.05E-01	8.89E-04	2.30E-01	2.04E-04	1.90E+00	1.69E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-26
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (6 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	9.32E-05	2.30E-01	2.14E-05	1.90E+00	1.77E-04
	95UCL	6.07E-01	1.78E-04	2.30E-01	4.10E-05	1.90E+00	3.39E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-27

Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (6 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	4.66E-04	2.30E-01	1.07E-04	1.90E+00	8.85E-04
	95UCL	6.07E-01	8.91E-04	2.30E-01	2.05E-04	1.90E+00	1.69E-03

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-28
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (6 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	1.12E-03	2.30E-01	2.57E-04	1.90E+00	2.12E-03
	95UCL	6.07E-01	2.14E-03	2.30E-01	4.92E-04	1.90E+00	4.06E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-29
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Lead Rider (4 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	4
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	6.24E-02	1.22E-05	2.30E-01	2.81E-06	1.90E+00	2.32E-05
	95UCL	1.33E-01	2.60E-05	2.30E-01	5.99E-06	1.90E+00	4.95E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-30
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Lead Rider (4 hours) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	60
Exposure Time for inhalation (hours/day)	ET	4
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	6.24E-02	7.33E-04	2.30E-01	1.69E-04	1.90E+00	1.39E-03
	95UCL	1.33E-01	1.56E-03	2.30E-01	3.59E-04	1.90E+00	2.97E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-31

Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Lead Rider (4 hours) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	120
Exposure Time for inhalation (hours/day)	ET	4
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	6.24E-02	1.47E-03	2.30E-01	3.37E-04	1.90E+00	2.78E-03
	95UCL	1.33E-01	3.12E-03	2.30E-01	7.18E-04	1.90E+00	5.93E-03

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-32
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (3 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	4.66E-05	2.30E-01	1.07E-05	1.90E+00	8.85E-05
	95UCL	6.07E-01	8.91E-05	2.30E-01	2.05E-05	1.90E+00	1.69E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-33
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (3 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	2.33E-04	2.30E-01	5.36E-05	1.90E+00	4.43E-04
	95UCL	6.07E-01	4.45E-04	2.30E-01	1.02E-04	1.90E+00	8.46E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-34
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (3 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	5.59E-04	2.30E-01	1.29E-04	1.90E+00	1.06E-03
	95UCL	6.07E-01	1.07E-03	2.30E-01	2.46E-04	1.90E+00	2.03E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-35
Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Driver (Drive In/Out - 1 hour) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.84E-01	9.01E-06	2.30E-01	2.07E-06	1.90E+00	1.71E-05
	95UCL	3.15E-01	1.54E-05	2.30E-01	3.54E-06	1.90E+00	2.92E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-36
Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Driver (Drive In/Out - 1 hour) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.84E-01	4.50E-05	2.30E-01	1.04E-05	1.90E+00	8.56E-05
	95UCL	3.15E-01	7.70E-05	2.30E-01	1.77E-05	1.90E+00	1.46E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-37
Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Driver (Drive In/Out - 1 hour) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.84E-01	1.08E-04	2.30E-01	2.49E-05	1.90E+00	2.05E-04
	95UCL	3.15E-01	1.85E-04	2.30E-01	4.25E-05	1.90E+00	3.51E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-38
Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Lead Driver (Patrol - 6 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.04E-01	3.05E-05	2.30E-01	7.02E-06	1.90E+00	5.80E-05
	95UCL	1.34E-01	3.93E-05	2.30E-01	9.05E-06	1.90E+00	7.47E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-39

Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Lead Driver (Patrol - 6 hours) - Reasonable Maximum Exposure (RME)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	60
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.04E-01	1.83E-03	2.30E-01	4.21E-04	1.90E+00	3.48E-03
	95UCL	1.34E-01	2.36E-03	2.30E-01	5.43E-04	1.90E+00	4.48E-03

Notes:

Minimum Concentration (or Maximum) = Minimum or maximum air concentration

Table G-40

Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Lead Driver (Patrol - 6 hours) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	120
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.04E-01	3.66E-03	2.30E-01	8.43E-04	1.90E+00	6.96E-03
	95UCL	1.34E-01	4.72E-03	2.30E-01	1.09E-03	1.90E+00	8.97E-03

Notes:

Minimum Concentration (or Maximum) = Minimum or maximum air concentration

Table G-41
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (8 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	7.18E-06	2.30E-01	1.65E-06	1.90E+00	1.36E-05
	95UCL	2.09E-02	8.18E-06	2.30E-01	1.88E-06	1.90E+00	1.55E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-42
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (8 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	3.59E-05	2.30E-01	8.25E-06	1.90E+00	6.82E-05
	95UCL	2.09E-02	4.09E-05	2.30E-01	9.41E-06	1.90E+00	7.77E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-43
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (8 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	8.61E-05	2.30E-01	1.98E-05	1.90E+00	1.64E-04
	95UCL	2.09E-02	9.82E-05	2.30E-01	2.26E-05	1.90E+00	1.87E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-44
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (6 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	5.38E-06	2.30E-01	1.24E-06	1.90E+00	1.02E-05
	95UCL	2.09E-02	6.14E-06	2.30E-01	1.41E-06	1.90E+00	1.17E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-45
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (6 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	2.69E-05	2.30E-01	6.19E-06	1.90E+00	5.11E-05
	95UCL	2.09E-02	3.07E-05	2.30E-01	7.06E-06	1.90E+00	5.83E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-46
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (6 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	***Lead Hiker***						
	Mean Concentration	1.83E-02	6.46E-05	2.30E-01	1.49E-05	1.90E+00	1.23E-04
	95UCL	2.09E-02	7.36E-05	2.30E-01	1.69E-05	1.90E+00	1.40E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-47
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (9 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	3.85E-05	2.30E-01	8.85E-06	1.90E+00	7.31E-05
	95UCL	4.39E-01	1.93E-04	2.30E-01	4.45E-05	1.90E+00	3.67E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-48
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (9 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	1.92E-04	2.30E-01	4.43E-05	1.90E+00	3.66E-04
	95UCL	4.39E-01	9.66E-04	2.30E-01	2.22E-04	1.90E+00	1.84E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-49
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (9 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	4.62E-04	2.30E-01	1.06E-04	1.90E+00	8.78E-04
	95UCL	4.39E-01	2.32E-03	2.30E-01	5.33E-04	1.90E+00	4.41E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-50
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (7 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	2.99E-05	2.30E-01	6.88E-06	1.90E+00	5.69E-05
	95UCL	4.39E-01	1.50E-04	2.30E-01	3.46E-05	1.90E+00	2.86E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-51

Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (7 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	1.50E-04	2.30E-01	3.44E-05	1.90E+00	2.84E-04
	95UCL	4.39E-01	7.52E-04	2.30E-01	1.73E-04	1.90E+00	1.43E-03

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-52
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (7 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	3.59E-04	2.30E-01	8.26E-05	1.90E+00	6.83E-04
	95UCL	4.39E-01	1.80E-03	2.30E-01	4.15E-04	1.90E+00	3.43E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-53
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (3 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	1.28E-05	2.30E-01	2.95E-06	1.90E+00	2.44E-05
	95UCL	4.39E-01	6.44E-05	2.30E-01	1.48E-05	1.90E+00	1.22E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-54
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (3 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	6.41E-05	2.30E-01	1.48E-05	1.90E+00	1.22E-04
	95UCL	4.39E-01	3.22E-04	2.30E-01	7.41E-05	1.90E+00	6.12E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-55
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (3 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	1.54E-04	2.30E-01	3.54E-05	1.90E+00	2.93E-04
	95UCL	4.39E-01	7.73E-04	2.30E-01	1.78E-04	1.90E+00	1.47E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-56
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (2 hours) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	8.55E-06	2.30E-01	1.97E-06	1.90E+00	1.63E-05
	95UCL	4.39E-01	4.30E-05	2.30E-01	9.88E-06	1.90E+00	8.16E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-57

Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (2 hours) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	4.28E-05	2.30E-01	9.84E-06	1.90E+00	8.13E-05
	95UCL	4.39E-01	2.15E-04	2.30E-01	4.94E-05	1.90E+00	4.08E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-58
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (2 hours) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	1.03E-04	2.30E-01	2.36E-05	1.90E+00	1.95E-04
	95UCL	4.39E-01	5.15E-04	2.30E-01	1.19E-04	1.90E+00	9.79E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-59
Risk Calculation Worksheet - Carcinogenic Effects: Adult Sleeping Camper - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Sleeping Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	1.14E-07	2.30E-01	2.62E-08	1.90E+00	2.17E-07
	95UCL	4.97E-04	1.95E-07	2.30E-01	4.48E-08	1.90E+00	3.70E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-60
Risk Calculation Worksheet - Carcinogenic Effects: Adult Sleeping Camper - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Sleeping Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	5.70E-07	2.30E-01	1.31E-07	1.90E+00	1.08E-06
	95UCL	4.97E-04	9.73E-07	2.30E-01	2.24E-07	1.90E+00	1.85E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-61

Risk Calculation Worksheet - Carcinogenic Effects: Adult Sleeping Camper - High Estimate Exposure (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Sleeping Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	1.37E-06	2.30E-01	3.15E-07	1.90E+00	2.60E-06
	95UCL	4.97E-04	2.34E-06	2.30E-01	5.37E-07	1.90E+00	4.44E-06

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-62
Risk Calculation Worksheet - Carcinogenic Effects: Adult Vehicle Washer - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User/Worker
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	3.59E-06	2.30E-01	8.25E-07	1.90E+00	6.81E-06
	95UCL	3.73E-01	9.13E-06	2.30E-01	2.10E-06	1.90E+00	1.73E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-63

Risk Calculation Worksheet - Carcinogenic Effects: Adult Vehicle Washer - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult
Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	Asbestos	EPC Value [PCMe f/ml]	Chronic Exposure Concentration [PCMe f/ml]	IRIS Unit Risk $[fibers/ml]^{-1}$	Cancer Risk	OEHHA Unit Risk $[fibers/ml]^{-1}$	Cancer Risk
Inhalation							
	Mean Concentration	1.47E-01	1.79E-05	2.30E-01	4.12E-06	1.90E+00	3.41E-05
	95UCL	3.73E-01	4.56E-05	2.30E-01	1.05E-05	1.90E+00	8.67E-05

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-64

Risk Calculation Worksheet - Carcinogenic Effects: Adult Vehicle Washer - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult
Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	60
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	Asbestos	EPC Value [PCMe f/ml]	Chronic Exposure Concentration [PCMe f/ml]	IRIS Unit Risk $[fibers/ml]^{-1}$	Cancer Risk	OEHHA Unit Risk $[fibers/ml]^{-1}$	Cancer Risk
Inhalation							
	Mean Concentration	1.47E-01	2.15E-04	2.30E-01	4.95E-05	1.90E+00	4.09E-04
	95UCL	3.73E-01	5.48E-04	2.30E-01	1.26E-04	1.90E+00	1.04E-03

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-65
Risk Calculation Worksheet - Carcinogenic Effects: Adult Vehicle Washer - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	4.30E-05	2.30E-01	9.90E-06	1.90E+00	8.18E-05
	95UCL	3.73E-01	1.10E-04	2.30E-01	2.52E-05	1.90E+00	2.08E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-66
Risk Calculation Worksheet - Carcinogenic Effects: Adult Vehicle Washer - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	120
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	4.30E-04	2.30E-01	9.90E-05	1.90E+00	8.18E-04
	95UCL	3.73E-01	1.10E-03	2.30E-01	2.52E-04	1.90E+00	2.08E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-67
Risk Calculation Worksheet - Carcinogenic Effects: Adult Decon Vacuumer - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User/Worker
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	1.32E-06	2.30E-01	3.04E-07	1.90E+00	2.52E-06
	95UCL	7.37E-02	1.80E-06	2.30E-01	4.15E-07	1.90E+00	3.43E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-68

Risk Calculation Worksheet - Carcinogenic Effects: Adult Decon Vacuumer - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult
Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	Asbestos	EPC Value [PCMe f/ml]	Chronic Exposure Concentration [PCMe f/ml]	IRIS Unit Risk $[fibers/ml]^{-1}$	Cancer Risk	OEHHA Unit Risk $[fibers/ml]^{-1}$	Cancer Risk
Inhalation							
	Mean Concentration	5.41E-02	6.62E-06	2.30E-01	1.52E-06	1.90E+00	1.26E-05
	95UCL	7.37E-02	9.01E-06	2.30E-01	2.07E-06	1.90E+00	1.71E-05

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-69

Risk Calculation Worksheet - Carcinogenic Effects: Adult Decon Vacuumer - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	60
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	7.94E-05	2.30E-01	1.83E-05	1.90E+00	1.51E-04
	95UCL	7.37E-02	1.08E-04	2.30E-01	2.49E-05	1.90E+00	2.06E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-70
Risk Calculation Worksheet - Carcinogenic Effects: Adult Decon Vacuumer - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	1.59E-05	2.30E-01	3.65E-06	1.90E+00	3.02E-05
	95UCL	7.37E-02	2.16E-05	2.30E-01	4.98E-06	1.90E+00	4.11E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-71
Risk Calculation Worksheet - Carcinogenic Effects: Adult Decon Vacuumer - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	120
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	1.59E-04	2.30E-01	3.65E-05	1.90E+00	3.02E-04
	95UCL	7.37E-02	2.16E-04	2.30E-01	4.98E-05	1.90E+00	4.11E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-72
Risk Calculation Worksheet - Carcinogenic Effects: Fence Builder/Repair - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational Volunteer
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Fence Builder
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	6.19E-02	9.08E-06	2.30E-01	2.09E-06	1.90E+00	1.73E-05
	95UCL	1.09E-01	1.60E-05	2.30E-01	3.69E-06	1.90E+00	3.05E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-73
Risk Calculation Worksheet - Carcinogenic Effects: Fence Builder/Repair - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational Volunteer
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Fence Builder/Repair
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	6.19E-02	4.54E-05	2.30E-01	1.04E-05	1.90E+00	8.63E-05
	95UCL	1.09E-01	8.02E-05	2.30E-01	1.84E-05	1.90E+00	1.52E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-74
Risk Calculation Worksheet - Carcinogenic Effects: Fence Builder/Repair - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational Volunteer
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Fence Builder/Repair
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	6.19E-02	1.09E-04	2.30E-01	2.51E-05	1.90E+00	2.07E-04
	95UCL	1.09E-01	1.93E-04	2.30E-01	4.43E-05	1.90E+00	3.66E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-75
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1 hour) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	1.41E-07	2.30E-01	3.23E-08	1.90E+00	2.67E-07
	95UCL	3.44E-03	1.68E-07	2.30E-01	3.87E-08	1.90E+00	3.20E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA").

Table G-76
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1 hour) - Reasonable Maximum Exposure (RME) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	7.03E-07	2.30E-01	1.62E-07	1.90E+00	1.34E-06
	95UCL	3.44E-03	8.41E-07	2.30E-01	1.94E-07	1.90E+00	1.60E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA").

Table G-77
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1 hour) - High Estimate Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	1.69E-06	2.30E-01	3.88E-07	1.90E+00	3.20E-06
	95UCL	3.44E-03	2.02E-06	2.30E-01	4.64E-07	1.90E+00	3.84E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA").

Table G-78
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1/2 hour) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	7.03E-08	2.30E-01	1.62E-08	1.90E+00	1.34E-07
	95UCL	3.44E-03	8.41E-08	2.30E-01	1.94E-08	1.90E+00	1.60E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA").

Table G-79
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1/2 hour) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	3.51E-07	2.30E-01	8.08E-08	1.90E+00	6.68E-07
	95UCL	3.44E-03	4.21E-07	2.30E-01	9.68E-08	1.90E+00	7.99E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA").

Table G-80
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1/2 hour) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	8.43E-07	2.30E-01	1.94E-07	1.90E+00	1.60E-06
	95UCL	3.44E-03	1.01E-06	2.30E-01	2.32E-07	1.90E+00	1.92E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA").

Table G-81
Risk Calculation Worksheet - Carcinogenic Effects: Staging at Section 8 (1 hour) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.68E-03	1.31E-07	2.30E-01	3.02E-08	1.90E+00	2.49E-07
	95UCL	3.12E-03	1.53E-07	2.30E-01	3.51E-08	1.90E+00	2.90E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging at Section 8").

Table G-82
Risk Calculation Worksheet - Carcinogenic Effects: Staging at Section 8 (1 hour) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	60
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.68E-03	7.87E-06	2.30E-01	1.81E-06	1.90E+00	1.50E-05
	95UCL	3.12E-03	9.16E-06	2.30E-01	2.11E-06	1.90E+00	1.74E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging at Section 8").

Table G-83
Risk Calculation Worksheet - Carcinogenic Effects: Staging at Section 8 (1 hour) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	120
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.68E-03	1.57E-05	2.30E-01	3.62E-06	1.90E+00	2.99E-05
	95UCL	3.12E-03	1.83E-05	2.30E-01	4.21E-06	1.90E+00	3.48E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging at Section 8").

Table G-84
Risk Calculation Worksheet - Carcinogenic Effects: Staging at Section 8 (1/2 hour) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.68E-03	6.56E-08	2.30E-01	1.51E-08	1.90E+00	1.25E-07
	95UCL	3.12E-03	7.63E-08	2.30E-01	1.76E-08	1.90E+00	1.45E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging at Section 8").

Table G-85

Risk Calculation Worksheet - Carcinogenic Effects: Staging at Section 8 (1/2 hour) - Reasonable Maximum Exposure (RME)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	60
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.68E-03	3.93E-06	2.30E-01	9.05E-07	1.90E+00	7.48E-06
	95UCL	3.12E-03	4.58E-06	2.30E-01	1.05E-06	1.90E+00	8.70E-06

Notes:

95UCL = 95% Upper Confidence Limit of the mean

EPC values are from Table G-1 ("Staging at Section 8").

Table G-86
Risk Calculation Worksheet - Carcinogenic Effects: Staging at Section 8 (1/2 hour) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	120
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.68E-03	7.87E-06	2.30E-01	1.81E-06	1.90E+00	1.50E-05
	95UCL	3.12E-03	9.16E-06	2.30E-01	2.11E-06	1.90E+00	1.74E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging at Section 8").

Table G-87
Risk Calculation Worksheet - Carcinogenic Effects: Transit from Section 8 to Oak Flat and Staging (1 hour) - One-Day Per Year Exposure (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	4.97E-03	2.43E-07	2.30E-01	5.60E-08	1.90E+00	4.62E-07
	95UCL	1.22E-02	5.96E-07	2.30E-01	1.37E-07	1.90E+00	1.13E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging at Oak Flat").

Table G-88
Risk Calculation Worksheet - Carcinogenic Effects: Transit from Section 8 to Oak Flat and Staging (1 hour) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	60
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	4.97E-03	1.46E-05	2.30E-01	3.36E-06	1.90E+00	2.77E-05
	95UCL	1.22E-02	3.58E-05	2.30E-01	8.23E-06	1.90E+00	6.80E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging at Oak Flat").

Table G-89
Risk Calculation Worksheet - Carcinogenic Effects: Transit from Section 8 to Oak Flat and Staging (1 hour) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Worker
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Adult
Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	120
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	30
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	Asbestos	EPC Value [PCMe f/ml]	Chronic Exposure Concentration [PCMe f/ml]	IRIS Unit Risk [fibers/ml]$^{-1}$	Cancer Risk	OEHHA Unit Risk [fibers/ml]$^{-1}$	Cancer Risk
Inhalation							
	Mean Concentration	4.97E-03	2.92E-05	2.30E-01	6.72E-06	1.90E+00	5.55E-05
	95UCL	1.22E-02	7.16E-05	2.30E-01	1.65E-05	1.90E+00	1.36E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging at Oak Flat").

Table G-90
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 1 Weekend Rider (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Motorcycling on Saturday (6 hours)	Camping on Saturday (9 hours)	Sleeping (8 hour)	Camping on Sunday (3 hours)	Motorcycling on Sunday (5 hours)	Drive Out (1 hour)	Decon Vehicle Wash (0.5 hours)	Decon Vacuum (0.5 hours)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk										
1	**2E-06**	**2E-05**	**9E-06**	3E-08	**3E-06**	**2E-05**	**2E-06**	8E-07	3E-07	**5E-05**
5 (RME)	**1E-05**	**1E-04**	**4E-05**	1E-07	**1E-05**	**9E-05**	**1E-05**	**4E-06**	**2E-06**	**3E-04**
12 (High Estimate)	**2E-05**	**2E-04**	**1E-04**	3E-07	**4E-05**	**2E-04**	**2E-05**	**1E-05**	**4E-06**	**6E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk										
1	**4E-06**	**3E-05**	**4E-05**	4E-08	**1E-05**	**3E-05**	**4E-06**	**2E-06**	4E-07	**1E-04**
5 (RME)	**2E-05**	**2E-04**	**2E-04**	2E-07	**7E-05**	**1E-04**	**2E-05**	**1E-05**	**2E-06**	**7E-04**
12 (High Estimate)	**4E-05**	**4E-04**	**5E-04**	5E-07	**2E-04**	**3E-04**	**4E-05**	**3E-05**	**5E-06**	**2E-03**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk										
1	**2E-05**	**2E-04**	**7E-05**	2E-07	**2E-05**	**1E-04**	**2E-05**	**7E-06**	**3E-06**	**4E-04**
5 (RME)	**9E-05**	**9E-04**	**4E-04**	1E-06	**1E-04**	**7E-04**	**9E-05**	**3E-05**	**1E-05**	**2E-03**
12 (High Estimate)	**2E-04**	**2E-03**	**9E-04**	**3E-06**	**3E-04**	**2E-03**	**2E-04**	**8E-05**	**3E-05**	**5E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk										
1	**3E-05**	**3E-04**	**4E-04**	4E-07	**1E-04**	**2E-04**	**3E-05**	**2E-05**	**3E-06**	**1E-03**
5 (RME)	**1E-04**	**1E-03**	**2E-03**	**2E-06**	**6E-04**	**1E-03**	**1E-04**	**9E-05**	**2E-05**	**5E-03**
12 (High Estimate)	**4E-04**	**3E-03**	**4E-03**	**4E-06**	**1E-03**	**3E-03**	**4E-04**	**2E-04**	**4E-05**	**1E-02**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-91
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 2 Day Use Rider (ATV) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Staging (1 hour)	ATV Riding (6 hours)	Staging (1 hour)	Drive Out (1 hour)	Decon Vehicle Wash (0.5 hours)	Decon Vacuum (0.5 hours)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk								
1	**2E-06**	3E-08	**2E-05**	3E-08	**2E-06**	8E-07	3E-07	**2E-05**
5 (RME)	**1E-05**	2E-07	**1E-04**	2E-07	**1E-05**	**4E-06**	**2E-06**	**1E-04**
12 (High Estimate)	**2E-05**	4E-07	**3E-04**	4E-07	**2E-05**	**1E-05**	**4E-06**	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk								
1	**4E-06**	4E-08	**4E-05**	4E-08	**4E-06**	**2E-06**	4E-07	**5E-05**
5 (RME)	**2E-05**	2E-07	**2E-04**	2E-07	**2E-05**	**1E-05**	**2E-06**	**2E-04**
12 (High Estimate)	**4E-05**	5E-07	**5E-04**	5E-07	**4E-05**	**3E-05**	**5E-06**	**6E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk								
1	**2E-05**	3E-07	**2E-04**	3E-07	**2E-05**	**7E-06**	**3E-06**	**2E-04**
5 (RME)	**9E-05**	1E-06	**9E-04**	1E-06	**9E-05**	**3E-05**	**1E-05**	**1E-03**
12 (High Estimate)	**2E-04**	**3E-06**	**2E-03**	**3E-06**	**2E-04**	**8E-05**	**3E-05**	**2E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk								
1	**3E-05**	3E-07	**3E-04**	3E-07	**3E-05**	**2E-05**	**3E-06**	**4E-04**
5 (RME)	**1E-04**	**2E-06**	**2E-03**	**2E-06**	**1E-04**	**9E-05**	**2E-05**	**2E-03**
12 (High Estimate)	**4E-04**	**4E-06**	**4E-03**	**4E-06**	**4E-04**	**2E-04**	**4E-05**	**5E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06

Table G-92
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 2 Day Use Rider (Motorcycle) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Staging (1 hour)	Motorcycle Riding (6 hours)	Staging (1 hour)	Drive Out (1 hour)	Decon Vehicle Wash (0.5 hours)	Decon Vacuum (0.5 hours)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk								
1	**2E-06**	3E-08	**2E-05**	3E-08	**2E-06**	8E-07	3E-07	**2E-05**
5 (RME)	**1E-05**	2E-07	**1E-04**	2E-07	**1E-05**	**4E-06**	**2E-06**	**1E-04**
12 (High Estimate)	**2E-05**	4E-07	**2E-04**	4E-07	**2E-05**	**1E-05**	**4E-06**	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk								
1	**4E-06**	4E-08	**3E-05**	4E-08	**4E-06**	**2E-06**	4E-07	**4E-05**
5 (RME)	**2E-05**	2E-07	**2E-04**	2E-07	**2E-05**	**1E-05**	**2E-06**	**2E-04**
12 (High Estimate)	**4E-05**	5E-07	**4E-04**	5E-07	**4E-05**	**3E-05**	**5E-06**	**5E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk								
1	**2E-05**	3E-07	**2E-04**	3E-07	**2E-05**	**7E-06**	**3E-06**	**2E-04**
5 (RME)	**9E-05**	1E-06	**9E-04**	1E-06	**9E-05**	**3E-05**	**1E-05**	**1E-03**
12 (High Estimate)	**2E-04**	**3E-06**	**2E-03**	**3E-06**	**2E-04**	**8E-05**	**3E-05**	**2E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk								
1	**3E-05**	3E-07	**3E-04**	3E-07	**3E-05**	**2E-05**	**3E-06**	**3E-04**
5 (RME)	**1E-04**	**2E-06**	**1E-03**	**2E-06**	**1E-04**	**9E-05**	**2E-05**	**2E-03**
12 (High Estimate)	**4E-04**	**4E-06**	**3E-03**	**4E-06**	**4E-04**	**2E-04**	**4E-05**	**4E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-93
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 3 Day Use Hiker (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Staging (0.5 hour)	Hiking (6 hours)	Staging (0.5 hour)	Drive Out (1 hour)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk						
1	**2E-06**	2E-08	1E-06	2E-08	**2E-06**	**3E-06**
5 (RME)	**1E-05**	8E-08	**6E-06**	8E-08	**1E-05**	**2E-05**
12 (High Estimate)	**2E-05**	2E-07	**1E-05**	2E-07	**2E-05**	**4E-05**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk						
1	**4E-06**	2E-08	1E-06	2E-08	**4E-06**	**5E-06**
5 (RME)	**2E-05**	1E-07	**7E-06**	1E-07	**2E-05**	**2E-05**
12 (High Estimate)	**4E-05**	2E-07	**2E-05**	2E-07	**4E-05**	**6E-05**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk						
1	**2E-05**	1E-07	**1E-05**	1E-07	**2E-05**	**4E-05**
5 (RME)	**9E-05**	7E-07	**5E-05**	7E-07	**9E-05**	**1E-04**
12 (High Estimate)	**2E-04**	**2E-06**	**1E-04**	**2E-06**	**2E-04**	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk						
1	**3E-05**	2E-07	**1E-05**	2E-07	**3E-05**	**4E-05**
5 (RME)	**1E-04**	8E-07	**6E-05**	8E-07	**1E-04**	**2E-04**
12 (High Estimate)	**4E-04**	**2E-06**	**1E-04**	**2E-06**	**4E-04**	**5E-04**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-94
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 4 Weekend Hunter (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Hiking (8 hours)	Camping (7 hours)	Sleeping (8 hours)	Camping (2 hours)	Hiking (6 hours)	Drive Out (1 hour)	Decon Vehicle Wash (0.5 hours)	Decon Vacuum (0.5 hours)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk										
1	**2E-06**	**2E-06**	**7E-06**	3E-08	**2E-06**	1E-06	**2E-06**	8E-07	3E-07	**1E-05**
5 (RME)	**1E-05**	**8E-06**	**3E-05**	1E-07	**1E-05**	**6E-06**	**1E-05**	**4E-06**	**2E-06**	**7E-05**
12 (High Estimate)	**2E-05**	**2E-05**	**8E-05**	3E-07	**2E-05**	**1E-05**	**2E-05**	**1E-05**	**4E-06**	**2E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk										
1	**4E-06**	**2E-06**	**3E-05**	4E-08	**1E-05**	1E-06	**4E-06**	**2E-06**	4E-07	**5E-05**
5 (RME)	**2E-05**	**9E-06**	**2E-04**	2E-07	**5E-05**	**7E-06**	**2E-05**	**1E-05**	**2E-06**	**3E-04**
12 (High Estimate)	**4E-05**	**2E-05**	**4E-04**	5E-07	**1E-04**	**2E-05**	**4E-05**	**3E-05**	**5E-06**	**6E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk										
1	**2E-05**	**1E-05**	**6E-05**	2E-07	**2E-05**	**1E-05**	**2E-05**	**7E-06**	**3E-06**	**1E-04**
5 (RME)	**9E-05**	**7E-05**	**3E-04**	1E-06	**8E-05**	**5E-05**	**9E-05**	**3E-05**	**1E-05**	**6E-04**
12 (High Estimate)	**2E-04**	**2E-04**	**7E-04**	**3E-06**	**2E-04**	**1E-04**	**2E-04**	**8E-05**	**3E-05**	**1E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk										
1	**3E-05**	**2E-05**	**3E-04**	4E-07	**8E-05**	**1E-05**	**3E-05**	**2E-05**	**3E-06**	**4E-04**
5 (RME)	**1E-04**	**8E-05**	**1E-03**	**2E-06**	**4E-04**	**6E-05**	**1E-04**	**9E-05**	**2E-05**	**2E-03**
12 (High Estimate)	**4E-04**	**2E-04**	**3E-03**	**4E-06**	**1E-03**	**1E-04**	**4E-04**	**2E-04**	**4E-05**	**5E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-95
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 5 Combined Rider/Workday (Motorcycle) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Staging (0.5 hours)	Motorcycle Riding (3 hours)	Fence Building/Repair (3 hours)	Staging (1 hour)	Drive Out (1 hour)	Decon Vehicle Wash (0.5 hours)	Decon Vacuum (0.5 hours)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk									
1	**2E-06**	2E-08	**1E-05**	**2E-06**	3E-08	**2E-06**	8E-07	3E-07	**2E-05**
5 (RME)	**1E-05**	8E-08	**5E-05**	**1E-05**	2E-07	**1E-05**	**4E-06**	**2E-06**	**8E-05**
12 (High Estimate)	**2E-05**	2E-07	**1E-04**	**3E-05**	4E-07	**2E-05**	**1E-05**	**4E-06**	**2E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk									
1	**4E-06**	2E-08	**2E-05**	**4E-06**	4E-08	**4E-06**	**2E-06**	4E-07	**3E-05**
5 (RME)	**2E-05**	1E-07	**9E-05**	**2E-05**	2E-07	**2E-05**	**1E-05**	**2E-06**	**1E-04**
12 (High Estimate)	**4E-05**	2E-07	**2E-04**	**4E-05**	5E-07	**4E-05**	**3E-05**	**5E-06**	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk									
1	**2E-05**	1E-07	**9E-05**	**2E-05**	3E-07	**2E-05**	**7E-06**	**3E-06**	**1E-04**
5 (RME)	**9E-05**	7E-07	**4E-04**	**9E-05**	1E-06	**9E-05**	**3E-05**	**1E-05**	**6E-04**
12 (High Estimate)	**2E-04**	**2E-06**	**1E-03**	**2E-04**	**3E-06**	**2E-04**	**8E-05**	**3E-05**	**2E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk									
1	**3E-05**	2E-07	**1E-04**	**3E-05**	3E-07	**3E-05**	**2E-05**	**3E-06**	**2E-04**
5 (RME)	**1E-04**	8E-07	**7E-04**	**2E-04**	**2E-06**	**1E-04**	**9E-05**	**2E-05**	**1E-03**
12 (High Estimate)	**4E-04**	**2E-06**	**2E-03**	**4E-04**	**4E-06**	**4E-04**	**2E-04**	**4E-05**	**3E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-96
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 5 Combined Rider/Workday (ATV) (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Staging (0.5 hours)	ATV Riding (3 hours)	Fence Building/ Repair (3 hours)	Staging (1 hour)	Drive Out (1 hour)	Decon Vehicle Wash (0.5 hours)	Decon Vacuum (0.5 hours)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk									
1	**2E-06**	2E-08	**1E-05**	**2E-06**	3E-08	**2E-06**	8E-07	3E-07	**2E-05**
5 (RME)	**1E-05**	8E-08	**5E-05**	**1E-05**	2E-07	**1E-05**	**4E-06**	**2E-06**	**8E-05**
12 (High Estimate)	**2E-05**	2E-07	**1E-04**	**3E-05**	4E-07	**2E-05**	**1E-05**	**4E-06**	**2E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk									
1	**4E-06**	2E-08	**2E-05**	**4E-06**	4E-08	**4E-06**	**2E-06**	4E-07	**3E-05**
5 (RME)	**2E-05**	1E-07	**1E-04**	**2E-05**	2E-07	**2E-05**	**1E-05**	**2E-06**	**2E-04**
12 (High Estimate)	**4E-05**	2E-07	**2E-04**	**4E-05**	5E-07	**4E-05**	**3E-05**	**5E-06**	**4E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk									
1	**2E-05**	1E-07	**9E-05**	**2E-05**	3E-07	**2E-05**	**7E-06**	**3E-06**	**1E-04**
5 (RME)	**9E-05**	7E-07	**4E-04**	**9E-05**	1E-06	**9E-05**	**3E-05**	**1E-05**	**7E-04**
12 (High Estimate)	**2E-04**	**2E-06**	**1E-03**	**2E-04**	**3E-06**	**2E-04**	**8E-05**	**3E-05**	**2E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk									
1	**3E-05**	2E-07	**2E-04**	**3E-05**	3E-07	**3E-05**	**2E-05**	**3E-06**	**3E-04**
5 (RME)	**1E-04**	8E-07	**8E-04**	**2E-04**	**2E-06**	**1E-04**	**9E-05**	**2E-05**	**1E-03**
12 (High Estimate)	**4E-04**	**2E-06**	**2E-03**	**4E-04**	**4E-06**	**4E-04**	**2E-04**	**4E-05**	**3E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-97
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 6 Motorcycle Patrol (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Days/Year	Staging at Section 8 (1 hour)	Transit from Sec 8 to Oak Flat and staging (1 hour)	Motorcycle Patroling (Lead Position) (4 hours)	Staging to leave and transit to Sec 8* (1 hour)	Decon Vehicle Wash (0.5 hours)	Decon Vacuum (0.5 hours)	Unpacking at Section 8 (0.5 hours)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk								
1	3E-08	6E-08	1E-06	6E-08	8E-07	3E-07	2E-08	**3E-06**
60	**2E-06**	**3E-06**	**9E-05**	**3E-06**	**5E-05**	**2E-05**	9E-07	**2E-04**
120	**4E-06**	**7E-06**	**2E-04**	**7E-06**	**1E-04**	**4E-05**	**2E-06**	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk								
1	4E-08	1E-07	**2E-06**	1E-07	**2E-06**	4E-07	2E-08	**5E-06**
60	**2E-06**	**8E-06**	**1E-04**	**8E-06**	**1E-04**	**2E-05**	1E-06	**3E-04**
120	**4E-06**	**2E-05**	**3E-04**	**2E-05**	**3E-04**	**5E-05**	**2E-06**	**6E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk								
1	2E-07	5E-07	**1E-05**	5E-07	**7E-06**	**3E-06**	1E-07	**2E-05**
60	**1E-05**	**3E-05**	**7E-04**	**3E-05**	**4E-04**	**2E-04**	**7E-06**	**1E-03**
120	**3E-05**	**6E-05**	**1E-03**	**6E-05**	**8E-04**	**3E-04**	**1E-05**	**3E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk								
1	3E-07	1E-06	**2E-05**	1E-06	**2E-05**	**3E-06**	1E-07	**4E-05**
60	**2E-05**	**7E-05**	**1E-03**	**7E-05**	**1E-03**	**2E-04**	**9E-06**	**2E-03**
120	**3E-05**	**1E-04**	**2E-03**	**1E-04**	**2E-03**	**4E-04**	**2E-05**	**5E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
* Same activity as Transit from Sec 8 to Oak Flat and staging (refer to Tables G-87 to G-89)
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-98
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 6 ATV Patrol (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Days/Year	Staging at Section 8	Transit from Sec 8 to Oak Flat and staging	ATV Patroling (Lead Position)	Staging to leave and transit to Sec 8*	Decon Vehicle Wash	Decon Vacuum	Unpacking at Section 8	Sum of Combined Activities
	(1 hour)	(1 hour)	(4 hours)	(1 hour)	(0.5 hours)	(0.5 hours)	(0.5 hours)	
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk								
1	3E-08	6E-08	**3E-06**	6E-08	8E-07	3E-07	2E-08	**4E-06**
60	**2E-06**	**3E-06**	**2E-04**	**3E-06**	**5E-05**	**2E-05**	9E-07	**2E-04**
120	**4E-06**	**7E-06**	**3E-04**	**7E-06**	**1E-04**	**4E-05**	**2E-06**	**5E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk								
1	4E-08	1E-07	**6E-06**	1E-07	**2E-06**	4E-07	2E-08	**9E-06**
60	**2E-06**	**8E-06**	**4E-04**	**8E-06**	**1E-04**	**2E-05**	1E-06	**5E-04**
120	**4E-06**	**2E-05**	**7E-04**	**2E-05**	**3E-04**	**5E-05**	**2E-06**	**1E-03**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk								
1	2E-07	5E-07	**2E-05**	5E-07	**7E-06**	**3E-06**	1E-07	**3E-05**
60	**1E-05**	**3E-05**	**1E-03**	**3E-05**	**4E-04**	**2E-04**	**7E-06**	**2E-03**
120	**3E-05**	**6E-05**	**3E-03**	**6E-05**	**8E-04**	**3E-04**	**1E-05**	**4E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk								
1	3E-07	1E-06	**5E-05**	1E-06	**2E-05**	**3E-06**	1E-07	**7E-05**
60	**2E-05**	**7E-05**	**3E-03**	**7E-05**	**1E-03**	**2E-04**	**9E-06**	**4E-03**
120	**3E-05**	**1E-04**	**6E-03**	**1E-04**	**2E-03**	**4E-04**	**2E-05**	**9E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
* Same activity as Transit from Sec 8 to Oak Flat and staging (refer to Tables G-87 to G-89)
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-99
Combined Exposures, Adult Asbestos Cancer Risk: Scenario 7 SUV/Truck Patrol (30-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Days/Year	SUV/Truck Patrol (Lead Position)	Decon Vehicle	Decon Vacuum	Sum of Combined Activities
	(6 hours)	(0.5 hours)	(0.5 hours)	
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk				
1	**7E-06**	8E-07	3E-07	**8E-06**
60	**4E-04**	**5E-05**	**2E-05**	**5E-04**
120	**8E-04**	**1E-04**	**4E-05**	**1E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk				
1	**9E-06**	**2E-06**	4E-07	**1E-05**
60	**5E-04**	**1E-04**	**2E-05**	**1E-03**
120	**1E-03**	**3E-04**	**5E-05**	**2E-03**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk				
1	**6E-05**	**7E-06**	**3E-06**	**7E-05**
60	**3E-03**	**4E-04**	**2E-04**	**4E-03**
120	**7E-03**	**8E-04**	**3E-04**	**8E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk				
1	**7E-05**	**2E-05**	**3E-06**	**1E-04**
60	**4E-03**	**1E-03**	**2E-04**	**6E-03**
120	**9E-03**	**2E-03**	**4E-04**	**1E-02**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-100
Risk Calculation Worksheet - Carcinogenic Effects: Child Motorcyclist (6 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Motorcyclist
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.67E-01	4.31E-05	2.30E-01	9.91E-06	1.90E+00	8.19E-05
	95UCL	6.29E-01	7.39E-05	2.30E-01	1.70E-05	1.90E+00	1.40E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-101
Risk Calculation Worksheet - Carcinogenic Effects: Child Motorcyclist (6 hours) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Motorcyclist
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.67E-01	2.16E-04	2.30E-01	4.96E-05	1.90E+00	4.09E-04
	95UCL	6.29E-01	3.69E-04	2.30E-01	8.50E-05	1.90E+00	7.02E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-102
Risk Calculation Worksheet - Carcinogenic Effects: Child Motorcyclist (6 hours) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Motorcyclist
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.67E-01	5.17E-04	2.30E-01	1.19E-04	1.90E+00	9.83E-04
	95UCL	6.29E-01	8.87E-04	2.30E-01	2.04E-04	1.90E+00	1.68E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-103
Risk Calculation Worksheet - Carcinogenic Effects: Child Motorcyclist (5 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Motorcyclist
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.67E-01	3.59E-05	2.30E-01	8.26E-06	1.90E+00	6.82E-05
	95UCL	6.29E-01	6.16E-05	2.30E-01	1.42E-05	1.90E+00	1.17E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-104

Risk Calculation Worksheet - Carcinogenic Effects: Child Motorcyclist (5 hours) - Reasonable Maximum Exposure (RME)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Motorcyclist
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.67E-01	1.80E-04	2.30E-01	4.13E-05	1.90E+00	3.41E-04
	95UCL	6.29E-01	3.08E-04	2.30E-01	7.08E-05	1.90E+00	5.85E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-105
Risk Calculation Worksheet - Carcinogenic Effects: Child Motorcyclist (5 hours) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Motorcyclist
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.67E-01	4.31E-04	2.30E-01	9.91E-05	1.90E+00	8.19E-04
	95UCL	6.29E-01	7.39E-04	2.30E-01	1.70E-04	1.90E+00	1.40E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-106
Risk Calculation Worksheet - Carcinogenic Effects: Child ATV Rider (6 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	ATV Rider
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	4.40E-01	5.17E-05	2.30E-01	1.19E-05	1.90E+00	9.83E-05
	95UCL	7.41E-01	8.71E-05	2.30E-01	2.00E-05	1.90E+00	1.65E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-107

Risk Calculation Worksheet - Carcinogenic Effects: Child ATV Rider (6 hours) - Reasonable Maximum Exposure (RME)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	ATV Rider
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	4.40E-01	2.59E-04	2.30E-01	5.95E-05	1.90E+00	4.91E-04
	95UCL	7.41E-01	4.35E-04	2.30E-01	1.00E-04	1.90E+00	8.27E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-108
Risk Calculation Worksheet - Carcinogenic Effects: Child ATV Rider (6 hours) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	ATV Rider
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	4.40E-01	6.21E-04	2.30E-01	1.43E-04	1.90E+00	1.18E-03
	95UCL	7.41E-01	1.04E-03	2.30E-01	2.40E-04	1.90E+00	1.98E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-109

Risk Calculation Worksheet - Carcinogenic Effects: Child SUV Rider (Drive In/Out - 1 hour) - One-Day Per Year Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	SUV Rider
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.61E-01	5.10E-06	2.30E-01	1.17E-06	1.90E+00	9.69E-06
	95UCL	5.19E-01	1.02E-05	2.30E-01	2.34E-06	1.90E+00	1.93E-05

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-110
Risk Calculation Worksheet - Carcinogenic Effects: Child SUV Rider (Drive In/Out - 1 hour) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	SUV Rider
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.61E-01	2.55E-05	2.30E-01	5.86E-06	1.90E+00	4.84E-05
	95UCL	5.19E-01	5.08E-05	2.30E-01	1.17E-05	1.90E+00	9.65E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-111
Risk Calculation Worksheet - Carcinogenic Effects: Child SUV Rider (Drive In/Out - 1 hour) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	SUV Rider
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.61E-01	6.12E-05	2.30E-01	1.41E-05	1.90E+00	1.16E-04
	95UCL	5.19E-01	1.22E-04	2.30E-01	2.80E-05	1.90E+00	2.32E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-112
Risk Calculation Worksheet - Carcinogenic Effects: Child Hiker (8 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Hiker
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.60E-02	4.07E-06	2.30E-01	9.35E-07	1.90E+00	7.72E-06
	95UCL	5.09E-02	7.97E-06	2.30E-01	1.83E-06	1.90E+00	1.51E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-113

Risk Calculation Worksheet - Carcinogenic Effects: Child Hiker (8 hours) - Reasonable Maximum Exposure (RME)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Hiker
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.60E-02	2.03E-05	2.30E-01	4.68E-06	1.90E+00	3.86E-05
	95UCL	5.09E-02	3.98E-05	2.30E-01	9.16E-06	1.90E+00	7.57E-05

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-114

Risk Calculation Worksheet - Carcinogenic Effects: Child Hiker (8 hours) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Hiker
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	***Lead Hiker***						
	Mean Concentration	2.60E-02	4.88E-05	2.30E-01	1.12E-05	1.90E+00	9.27E-05
	95UCL	5.09E-02	9.56E-05	2.30E-01	2.20E-05	1.90E+00	1.82E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-115
Risk Calculation Worksheet - Carcinogenic Effects: Child Hiker (6 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Hiker
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.60E-02	3.05E-06	2.30E-01	7.01E-07	1.90E+00	5.79E-06
	95UCL	5.09E-02	5.97E-06	2.30E-01	1.37E-06	1.90E+00	1.14E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-116
Risk Calculation Worksheet - Carcinogenic Effects: Child Hiker (6 hours) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Hiker
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.60E-02	1.52E-05	2.30E-01	3.51E-06	1.90E+00	2.90E-05
	95UCL	5.09E-02	2.99E-05	2.30E-01	6.87E-06	1.90E+00	5.68E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-117

Risk Calculation Worksheet - Carcinogenic Effects: Child Hiker (6 hours) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Hiker
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	***Lead Hiker***						
	Mean Concentration	2.60E-02	3.66E-05	2.30E-01	8.42E-06	1.90E+00	6.95E-05
	95UCL	5.09E-02	7.17E-05	2.30E-01	1.65E-05	1.90E+00	1.36E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-118
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (9 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	8.10E-06	2.30E-01	1.86E-06	1.90E+00	1.54E-05
	95UCL	1.83E-01	3.22E-05	2.30E-01	7.40E-06	1.90E+00	6.11E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-119
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (9 hours) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	4.05E-05	2.30E-01	9.31E-06	1.90E+00	7.69E-05
	95UCL	1.83E-01	1.61E-04	2.30E-01	3.70E-05	1.90E+00	3.06E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-120
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (9 hours) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	9.71E-05	2.30E-01	2.23E-05	1.90E+00	1.85E-04
	95UCL	1.83E-01	3.86E-04	2.30E-01	8.88E-05	1.90E+00	7.33E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-121
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (7 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	6.30E-06	2.30E-01	1.45E-06	1.90E+00	1.20E-05
	95UCL	1.83E-01	2.50E-05	2.30E-01	5.75E-06	1.90E+00	4.75E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-122
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (7 hours) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	3.15E-05	2.30E-01	7.24E-06	1.90E+00	5.98E-05
	95UCL	1.83E-01	1.25E-04	2.30E-01	2.88E-05	1.90E+00	2.38E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-123

Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (7 hours) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	7.56E-05	2.30E-01	1.74E-05	1.90E+00	1.44E-04
	95UCL	1.83E-01	3.00E-04	2.30E-01	6.90E-05	1.90E+00	5.70E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-124
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (3 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	2.70E-06	2.30E-01	6.21E-07	1.90E+00	5.13E-06
	95UCL	1.83E-01	1.07E-05	2.30E-01	2.47E-06	1.90E+00	2.04E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-125
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (3 hours) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	1.35E-05	2.30E-01	3.10E-06	1.90E+00	2.56E-05
	95UCL	1.83E-01	5.36E-05	2.30E-01	1.23E-05	1.90E+00	1.02E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-126
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (3 hours) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	3.24E-05	2.30E-01	7.45E-06	1.90E+00	6.15E-05
	95UCL	1.83E-01	1.29E-04	2.30E-01	2.96E-05	1.90E+00	2.44E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-127
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (2 hours) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	1.80E-06	2.30E-01	4.14E-07	1.90E+00	3.42E-06
	95UCL	1.83E-01	7.15E-06	2.30E-01	1.64E-06	1.90E+00	1.36E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-128
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (2 hours) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	9.00E-06	2.30E-01	2.07E-06	1.90E+00	1.71E-05
	95UCL	1.83E-01	3.57E-05	2.30E-01	8.22E-06	1.90E+00	6.79E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-129
Risk Calculation Worksheet - Carcinogenic Effects: Child Camper (2 hours) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	4.60E-02	2.16E-05	2.30E-01	4.97E-06	1.90E+00	4.10E-05
	95UCL	1.83E-01	8.58E-05	2.30E-01	1.97E-05	1.90E+00	1.63E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-130
Risk Calculation Worksheet - Carcinogenic Effects: Child Sleeping Camper - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Sleeping Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	4.56E-08	2.30E-01	1.05E-08	1.90E+00	8.66E-08
	95UCL	4.97E-04	7.78E-08	2.30E-01	1.79E-08	1.90E+00	1.48E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-131
Risk Calculation Worksheet - Carcinogenic Effects: Child Sleeping Camper - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Sleeping Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	2.28E-07	2.30E-01	5.24E-08	1.90E+00	4.33E-07
	95UCL	4.97E-04	3.89E-07	2.30E-01	8.95E-08	1.90E+00	7.40E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-132
Risk Calculation Worksheet - Carcinogenic Effects: Child Sleeping Camper - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Sleeping Camper
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	5.47E-07	2.30E-01	1.26E-07	1.90E+00	1.04E-06
	95UCL	4.97E-04	9.34E-07	2.30E-01	2.15E-07	1.90E+00	1.77E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-133
Risk Calculation Worksheet - Carcinogenic Effects: Child Vehicle Washer - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Vehicle Washer
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	1.43E-06	2.30E-01	3.30E-07	1.90E+00	2.73E-06
	95UCL	3.73E-01	3.65E-06	2.30E-01	8.40E-07	1.90E+00	6.94E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-134
Risk Calculation Worksheet - Carcinogenic Effects: Child Vehicle Washer - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Vehicle Washer
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	7.17E-06	2.30E-01	1.65E-06	1.90E+00	1.36E-05
	95UCL	3.73E-01	1.83E-05	2.30E-01	4.20E-06	1.90E+00	3.47E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-135
Risk Calculation Worksheet - Carcinogenic Effects: Child Vehicle Washer - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Vehicle Washer
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	1.72E-05	2.30E-01	3.96E-06	1.90E+00	3.27E-05
	95UCL	3.73E-01	4.38E-05	2.30E-01	1.01E-05	1.90E+00	8.32E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-136
Risk Calculation Worksheet - Carcinogenic Effects: Child Decon Vacuumer - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Vehicle Washer
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	5.30E-07	2.30E-01	1.22E-07	1.90E+00	1.01E-06
	95UCL	7.37E-02	7.21E-07	2.30E-01	1.66E-07	1.90E+00	1.37E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-137
Risk Calculation Worksheet - Carcinogenic Effects: Child Decon Vacuumer - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Vehicle Washer
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	2.65E-06	2.30E-01	6.09E-07	1.90E+00	5.03E-06
	95UCL	7.37E-02	3.61E-06	2.30E-01	8.29E-07	1.90E+00	6.85E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-138
Risk Calculation Worksheet - Carcinogenic Effects: Child Decon Vacuumer - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Vehicle Washer
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	6.35E-06	2.30E-01	1.46E-06	1.90E+00	1.21E-05
	95UCL	7.37E-02	8.65E-06	2.30E-01	1.99E-06	1.90E+00	1.64E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-139
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1 hour) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	5.62E-08	2.30E-01	1.29E-08	1.90E+00	1.07E-07
	95UCL	3.44E-03	6.73E-08	2.30E-01	1.55E-08	1.90E+00	1.28E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA")

Table G-140
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1 hour) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	2.81E-07	2.30E-01	6.46E-08	1.90E+00	5.34E-07
	95UCL	3.44E-03	3.37E-07	2.30E-01	7.74E-08	1.90E+00	6.39E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA")

Table G-141
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1 hour) - High Estimate Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	6.75E-07	2.30E-01	1.55E-07	1.90E+00	1.28E-06
	95UCL	3.44E-03	8.08E-07	2.30E-01	1.86E-07	1.90E+00	1.53E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA")

Table G-142
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1/2 hour) - One-Day Per Year Exposure
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	2.81E-08	2.30E-01	6.46E-09	1.90E+00	5.34E-08
	95UCL	3.44E-03	3.37E-08	2.30E-01	7.74E-09	1.90E+00	6.39E-08

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA")

Table G-143
Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1/2 hour) - Reasonable Maximum Exposure (RME)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	1.41E-07	2.30E-01	3.23E-08	1.90E+00	2.67E-07
	95UCL	3.44E-03	1.68E-07	2.30E-01	3.87E-08	1.90E+00	3.20E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA")

Table G-144

Risk Calculation Worksheet - Carcinogenic Effects: Staging in CCMA (1/2 hour) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Child

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	12
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	3.37E-07	2.30E-01	7.76E-08	1.90E+00	6.41E-07
	95UCL	3.44E-03	4.04E-07	2.30E-01	9.29E-08	1.90E+00	7.67E-07

Notes:

95UCL = 95% Upper Confidence Limit of the mean

EPC values are from Table G-1 ("Staging in CCMA")

Table G-145
Combined Exposures, Child Asbestos Cancer Risk: Scenario 1 - Weekend Rider
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In	Motorcycling on Saturday	Camping on Saturday	Sleeping	Camping on Sunday	Motorcycling on Sunday	Drive Out	Decon Vehicle	Decon Vacuum	Sum of Combined Activities
	(1 hour)	(6 hours)	(9 hours)	(8 hour)	(3 hours)	(5 hours)	(1 hour)	(0.5 hours)	(0.5 hours)	
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk										
1	1E-06	**1E-05**	**2E-06**	1E-08	6E-07	**8E-06**	1E-06	3E-07	1E-07	**2E-05**
5 (RME)	**6E-06**	**5E-05**	**9E-06**	5E-08	**3E-06**	**4E-05**	**6E-06**	**2E-06**	6E-07	**1E-04**
12 (High Estimate)	**1E-05**	**1E-04**	**2E-05**	1E-07	**7E-06**	**1E-04**	**1E-05**	**4E-06**	1E-06	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk										
1	**2E-06**	**2E-05**	**7E-06**	2E-08	**2E-06**	**1E-05**	**2E-06**	8E-07	2E-07	**5E-05**
5 (RME)	**1E-05**	**8E-05**	**4E-05**	9E-08	**1E-05**	**7E-05**	**1E-05**	**4E-06**	8E-07	**2E-04**
12 (High Estimate)	**3E-05**	**2E-04**	**9E-05**	2E-07	**3E-05**	**2E-04**	**3E-05**	**1E-05**	**2E-06**	**6E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk										
1	**1E-05**	**8E-05**	**2E-05**	9E-08	**5E-06**	**7E-05**	**1E-05**	**3E-06**	1E-06	**2E-04**
5 (RME)	**5E-05**	**4E-04**	**8E-05**	4E-07	**3E-05**	**3E-04**	**5E-05**	**1E-05**	**5E-06**	**1E-03**
12 (High Estimate)	**1E-04**	**1E-03**	**2E-04**	1E-06	**6E-05**	**8E-04**	**1E-04**	**3E-05**	**1E-05**	**2E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk										
1	**2E-05**	**1E-04**	**6E-05**	1E-07	**2E-05**	**1E-04**	**2E-05**	**7E-06**	1E-06	**4E-04**
5 (RME)	**1E-04**	**7E-04**	**3E-04**	7E-07	**1E-04**	**6E-04**	**1E-04**	**3E-05**	**7E-06**	**2E-03**
12 (High Estimate)	**2E-04**	**2E-03**	**7E-04**	**2E-06**	**2E-04**	**1E-03**	**2E-04**	**8E-05**	**2E-05**	**5E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-146
Combined Exposures, Child Asbestos Cancer Risk: Scenario 2 - Day Use Rider (ATV)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In	Staging	ATV Riding	Staging	Drive Out	Decon Vehicle	Decon Vacuum	Sum of Combined Activities
	(1 hour)	(1 hour)	(6 hours)	(1 hour)	(1 hour)	(0.5 hours)	(0.5 hours)	
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk								
1	1E-06	1E-08	**1E-05**	1E-08	1E-06	3E-07	1E-07	**1E-05**
5 (RME)	**6E-06**	6E-08	**6E-05**	6E-08	**6E-06**	**2E-06**	6E-07	**7E-05**
12 (High Estimate)	**1E-05**	2E-07	**1E-04**	2E-07	**1E-05**	**4E-06**	1E-06	**2E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk								
1	**2E-06**	2E-08	**2E-05**	2E-08	**2E-06**	8E-07	2E-07	**3E-05**
5 (RME)	**1E-05**	8E-08	**1E-04**	8E-08	**1E-05**	**4E-06**	8E-07	**1E-04**
12 (High Estimate)	**3E-05**	2E-07	**2E-04**	2E-07	**3E-05**	**1E-05**	**2E-06**	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk								
1	**1E-05**	1E-07	**1E-04**	1E-07	**1E-05**	**3E-06**	1E-06	**1E-04**
5 (RME)	**5E-05**	5E-07	**5E-04**	5E-07	**5E-05**	**1E-05**	**5E-06**	**6E-04**
12 (High Estimate)	**1E-04**	1E-06	**1E-03**	1E-06	**1E-04**	**3E-05**	**1E-05**	**1E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk								
1	**2E-05**	1E-07	**2E-04**	1E-07	**2E-05**	**7E-06**	1E-06	**2E-04**
5 (RME)	**1E-04**	6E-07	**8E-04**	6E-07	**1E-04**	**3E-05**	**7E-06**	**1E-03**
12 (High Estimate)	**2E-04**	**2E-06**	**2E-03**	**2E-06**	**2E-04**	**8E-05**	**2E-05**	**3E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-147
Combined Exposures, Child Asbestos Cancer Risk: Scenario 2 - Day Use Rider (Motorcycle)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In	Staging	Motorcycle Riding	Staging	Drive Out	Decon Vehicle	Decon Vacuum	Sum of Combined Activities
	(1 hour)	(1 hour)	(6 hours)	(1 hour)	(1 hour)	(0.5 hours)	(0.5 hours)	
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk								
1	1E-06	1E-08	**1E-05**	1E-08	1E-06	3E-07	1E-07	**1E-05**
5 (RME)	**6E-06**	6E-08	**5E-05**	6E-08	**6E-06**	**2E-06**	6E-07	**6E-05**
12 (High Estimate)	**1E-05**	2E-07	**1E-04**	2E-07	**1E-05**	**4E-06**	1E-06	**2E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk								
1	**2E-06**	2E-08	**2E-05**	2E-08	**2E-06**	8E-07	2E-07	**2E-05**
5 (RME)	**1E-05**	8E-08	**8E-05**	8E-08	**1E-05**	**4E-06**	8E-07	**1E-04**
12 (High Estimate)	**3E-05**	2E-07	**2E-04**	2E-07	**3E-05**	**1E-05**	**2E-06**	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk								
1	**1E-05**	1E-07	**8E-05**	1E-07	**1E-05**	**3E-06**	1E-06	**1E-04**
5 (RME)	**5E-05**	5E-07	**4E-04**	5E-07	**5E-05**	**1E-05**	**5E-06**	**5E-04**
12 (High Estimate)	**1E-04**	1E-06	**1E-03**	1E-06	**1E-04**	**3E-05**	**1E-05**	**1E-03**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk								
1	**2E-05**	1E-07	**1E-04**	1E-07	**2E-05**	**7E-06**	1E-06	**2E-04**
5 (RME)	**1E-04**	6E-07	**7E-04**	6E-07	**1E-04**	**3E-05**	**7E-06**	**9E-04**
12 (High Estimate)	**2E-04**	**2E-06**	**2E-03**	**2E-06**	**2E-04**	**8E-05**	**2E-05**	**2E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-148
Combined Exposures, Child Asbestos Cancer Risk: Scenario 3 - Day Use Hiker
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Staging (0.5 hour)	Hiking (6 hours)	Staging (0.5 hour)	Drive Out (1 hour)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk						
1	1E-06	6E-09	7E-07	6E-09	1E-06	**3E-06**
5 (RME)	**6E-06**	3E-08	**4E-06**	3E-08	**6E-06**	**2E-05**
12 (High Estimate)	**1E-05**	8E-08	**8E-06**	8E-08	**1E-05**	**4E-05**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk						
1	**2E-06**	8E-09	1E-06	8E-09	**2E-06**	**6E-06**
5 (RME)	**1E-05**	4E-08	**7E-06**	4E-08	**1E-05**	**3E-05**
12 (High Estimate)	**3E-05**	9E-08	**2E-05**	9E-08	**3E-05**	**7E-05**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk						
1	**1E-05**	5E-08	**6E-06**	5E-08	**1E-05**	**3E-05**
5 (RME)	**5E-05**	3E-07	**3E-05**	3E-07	**5E-05**	**1E-04**
12 (High Estimate)	**1E-04**	6E-07	**7E-05**	6E-07	**1E-04**	**3E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk						
1	**2E-05**	6E-08	**1E-05**	6E-08	**2E-05**	**5E-05**
5 (RME)	**1E-04**	3E-07	**6E-05**	3E-07	**1E-04**	**3E-04**
12 (High Estimate)	**2E-04**	8E-07	**1E-04**	8E-07	**2E-04**	**6E-04**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-149
Combined Exposures, Child Asbestos Cancer Risk: Scenario 4 - Weekend Hunter
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Number of Visits/Year	Drive In (1 hour)	Hiking (8 hours)	Camping (7 hours)	Sleeping (8 hours)	Camping (2 hours)	Hiking (6 hours)	Drive Out (1 hour)	Decon Vehicle (0.5 hours)	Decon Vacuum (0.5 hours)	Sum of Combined Activities
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using IRIS Unit Risk										
1	1E-06	9E-07	1E-06	1E-08	4E-07	7E-07	1E-06	3E-07	1E-07	**6E-06**
5 (RME)	**6E-06**	**5E-06**	**7E-06**	5E-08	**2E-06**	**4E-06**	**6E-06**	**2E-06**	6E-07	**3E-05**
12 (High Estimate)	**1E-05**	**1E-05**	**2E-05**	1E-07	**5E-06**	**8E-06**	**1E-05**	**4E-06**	1E-06	**8E-05**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using IRIS Unit Risk										
1	**2E-06**	**2E-06**	**6E-06**	2E-08	**2E-06**	1E-06	**2E-06**	8E-07	2E-07	**2E-05**
5 (RME)	**1E-05**	**9E-06**	**3E-05**	9E-08	**8E-06**	**7E-06**	**1E-05**	**4E-06**	8E-07	**8E-05**
12 (High Estimate)	**3E-05**	**2E-05**	**7E-05**	2E-07	**2E-05**	**2E-05**	**3E-05**	**1E-05**	**2E-06**	**2E-04**
Estimated Excess Lifetime Cancer Risk by Activity (Mean) Using OEHHA Unit Risk										
1	**1E-05**	**8E-06**	**1E-05**	9E-08	**3E-06**	**6E-06**	**1E-05**	**3E-06**	1E-06	**5E-05**
5 (RME)	**5E-05**	**4E-05**	**6E-05**	4E-07	**2E-05**	**3E-05**	**5E-05**	**1E-05**	**5E-06**	**3E-04**
12 (High Estimate)	**1E-04**	**9E-05**	**1E-04**	1E-06	**4E-05**	**7E-05**	**1E-04**	**3E-05**	**1E-05**	**6E-04**
Estimated Excess Lifetime Cancer Risk by Activity (95 UCL) Using OEHHA Unit Risk										
1	**2E-05**	**2E-05**	**5E-05**	1E-07	**1E-05**	**1E-05**	**2E-05**	**7E-06**	1E-06	**1E-04**
5 (RME)	**1E-04**	**8E-05**	**2E-04**	7E-07	**7E-05**	**6E-05**	**1E-04**	**3E-05**	**7E-06**	**7E-04**
12 (High Estimate)	**2E-04**	**2E-04**	**6E-04**	**2E-06**	**2E-04**	**1E-04**	**2E-04**	**8E-05**	**2E-05**	**2E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
RME = Reasonable Maximum Exposure
Bolded results = an excess lifetime cancer risk greater than 1E-06
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04

Table G-150
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (6 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	5.41E-05	2.30E-01	1.24E-05	1.90E+00	1.03E-04
	95UCL	5.05E-01	8.89E-05	2.30E-01	2.04E-05	1.90E+00	1.69E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-151
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (6 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	2.70E-04	2.30E-01	6.22E-05	1.90E+00	5.14E-04
	95UCL	5.05E-01	4.44E-04	2.30E-01	1.02E-04	1.90E+00	8.44E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-152
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (6 hours) - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	6.49E-04	2.30E-01	1.49E-04	1.90E+00	1.23E-03
	95UCL	5.05E-01	1.07E-03	2.30E-01	2.45E-04	1.90E+00	2.03E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-153
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (5 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	4.51E-05	2.30E-01	1.04E-05	1.90E+00	8.56E-05
	95UCL	5.05E-01	7.40E-05	2.30E-01	1.70E-05	1.90E+00	1.41E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-154

Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (5 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	2.25E-04	2.30E-01	5.18E-05	1.90E+00	4.28E-04
	95UCL	5.05E-01	3.70E-04	2.30E-01	8.52E-05	1.90E+00	7.03E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-155
Risk Calculation Worksheet - Carcinogenic Effects: Adult Motorcyclist (5 hours) - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Motorcyclist
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.07E-01	5.41E-04	2.30E-01	1.24E-04	1.90E+00	1.03E-03
	95UCL	5.05E-01	8.89E-04	2.30E-01	2.04E-04	1.90E+00	1.69E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-156
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (6 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	5.59E-05	2.30E-01	1.29E-05	1.90E+00	1.06E-04
	95UCL	6.07E-01	1.07E-04	2.30E-01	2.46E-05	1.90E+00	2.03E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-157
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (6 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	2.80E-04	2.30E-01	6.43E-05	1.90E+00	5.31E-04
	95UCL	6.07E-01	5.35E-04	2.30E-01	1.23E-04	1.90E+00	1.02E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-158
Risk Calculation Worksheet - Carcinogenic Effects: Adult ATV Rider (6 hours) - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	ATV Rider
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	3.17E-01	6.71E-04	2.30E-01	1.54E-04	1.90E+00	1.27E-03
	95UCL	6.07E-01	1.28E-03	2.30E-01	2.95E-04	1.90E+00	2.44E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-159
Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Driver (Drive In/Out - 1 hour) - One-Day Per Year Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.84E-01	5.40E-06	2.30E-01	1.24E-06	1.90E+00	1.03E-05
	95UCL	3.15E-01	9.23E-06	2.30E-01	2.12E-06	1.90E+00	1.75E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-160
Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Driver (Drive In/Out - 1 hour) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.84E-01	2.70E-05	2.30E-01	6.22E-06	1.90E+00	5.13E-05
	95UCL	3.15E-01	4.62E-05	2.30E-01	1.06E-05	1.90E+00	8.77E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-161

Risk Calculation Worksheet - Carcinogenic Effects: Adult SUV Driver (Drive In/Out - 1 hour) - High Estimate Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	SUV Driver
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.84E-01	6.49E-05	2.30E-01	1.49E-05	1.90E+00	1.23E-04
	95UCL	3.15E-01	1.11E-04	2.30E-01	2.55E-05	1.90E+00	2.11E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-162
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (8 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	4.31E-06	2.30E-01	9.90E-07	1.90E+00	8.18E-06
	95UCL	2.09E-02	4.91E-06	2.30E-01	1.13E-06	1.90E+00	9.33E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-163
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (8 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	2.15E-05	2.30E-01	4.95E-06	1.90E+00	4.09E-05
	95UCL	2.09E-02	2.45E-05	2.30E-01	5.64E-06	1.90E+00	4.66E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-164
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (8 hours) - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	***Lead Hiker***						
	Mean Concentration	1.83E-02	5.17E-05	2.30E-01	1.19E-05	1.90E+00	9.82E-05
	95UCL	2.09E-02	5.89E-05	2.30E-01	1.35E-05	1.90E+00	1.12E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-165

Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (6 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	3.23E-06	2.30E-01	7.43E-07	1.90E+00	6.14E-06
	95UCL	2.09E-02	3.68E-06	2.30E-01	8.47E-07	1.90E+00	6.99E-06

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-166

Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (6 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.83E-02	1.61E-05	2.30E-01	3.71E-06	1.90E+00	3.07E-05
	95UCL	2.09E-02	1.84E-05	2.30E-01	4.23E-06	1.90E+00	3.50E-05

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-167
Risk Calculation Worksheet - Carcinogenic Effects: Adult Hiker (6 hours) - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Hiker
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	6
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	***Lead Hiker***						
	Mean Concentration	1.83E-02	3.88E-05	2.30E-01	8.91E-06	1.90E+00	7.36E-05
	95UCL	2.09E-02	4.42E-05	2.30E-01	1.02E-05	1.90E+00	8.39E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-168

Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (9 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	2.31E-05	2.30E-01	5.31E-06	1.90E+00	4.39E-05
	95UCL	4.39E-01	1.16E-04	2.30E-01	2.67E-05	1.90E+00	2.20E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-169
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (9 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	1.15E-04	2.30E-01	2.66E-05	1.90E+00	2.19E-04
	95UCL	4.39E-01	5.80E-04	2.30E-01	1.33E-04	1.90E+00	1.10E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-170
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (9 hours) - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	9
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	2.77E-04	2.30E-01	6.37E-05	1.90E+00	5.27E-04
	95UCL	4.39E-01	1.39E-03	2.30E-01	3.20E-04	1.90E+00	2.64E-03

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-171

Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (7 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	1.80E-05	2.30E-01	4.13E-06	1.90E+00	3.41E-05
	95UCL	4.39E-01	9.02E-05	2.30E-01	2.07E-05	1.90E+00	1.71E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-172

Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (7 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	8.98E-05	2.30E-01	2.07E-05	1.90E+00	1.71E-04
	95UCL	4.39E-01	4.51E-04	2.30E-01	1.04E-04	1.90E+00	8.57E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-173

Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (7 hours) - High Estimate Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	7
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	2.16E-04	2.30E-01	4.96E-05	1.90E+00	4.10E-04
	95UCL	4.39E-01	1.08E-03	2.30E-01	2.49E-04	1.90E+00	2.06E-03

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-174
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (3 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	7.70E-06	2.30E-01	1.77E-06	1.90E+00	1.46E-05
	95UCL	4.39E-01	3.87E-05	2.30E-01	8.89E-06	1.90E+00	7.34E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-175

Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (3 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	3.85E-05	2.30E-01	8.85E-06	1.90E+00	7.31E-05
	95UCL	4.39E-01	1.93E-04	2.30E-01	4.45E-05	1.90E+00	3.67E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-176

Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (3 hours) - High Estimate Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	3
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	9.24E-05	2.30E-01	2.12E-05	1.90E+00	1.76E-04
	95UCL	4.39E-01	4.64E-04	2.30E-01	1.07E-04	1.90E+00	8.81E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-177
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (2 hours) - One-Day Per Year Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	5.13E-06	2.30E-01	1.18E-06	1.90E+00	9.75E-06
	95UCL	4.39E-01	2.58E-05	2.30E-01	5.93E-06	1.90E+00	4.90E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-178
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (2 hours) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	2.57E-05	2.30E-01	5.90E-06	1.90E+00	4.88E-05
	95UCL	4.39E-01	1.29E-04	2.30E-01	2.96E-05	1.90E+00	2.45E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-179
Risk Calculation Worksheet - Carcinogenic Effects: Adult Camper (2 hours) - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	2
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	8.74E-02	6.16E-05	2.30E-01	1.42E-05	1.90E+00	1.17E-04
	95UCL	4.39E-01	3.09E-04	2.30E-01	7.11E-05	1.90E+00	5.88E-04

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-180

Risk Calculation Worksheet - Carcinogenic Effects: Adult Sleeping Camper - One-Day Per Year Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Sleeping Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	6.84E-08	2.30E-01	1.57E-08	1.90E+00	1.30E-07
	95UCL	4.97E-04	1.17E-07	2.30E-01	2.69E-08	1.90E+00	2.22E-07

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-181

Risk Calculation Worksheet - Carcinogenic Effects: Adult Sleeping Camper - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Sleeping Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	3.42E-07	2.30E-01	7.86E-08	1.90E+00	6.50E-07
	95UCL	4.97E-04	5.84E-07	2.30E-01	1.34E-07	1.90E+00	1.11E-06

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-182
Risk Calculation Worksheet - Carcinogenic Effects: Adult Sleeping Camper - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Sleeping Camper
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	8
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation	Mean Concentration	2.91E-04	8.21E-07	2.30E-01	1.89E-07	1.90E+00	1.56E-06
	95UCL	4.97E-04	1.40E-06	2.30E-01	3.22E-07	1.90E+00	2.66E-06

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-183
Risk Calculation Worksheet - Carcinogenic Effects: Adult Vehicle Washer - One-Day Per Year Exposure(18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	2.15E-06	2.30E-01	4.95E-07	1.90E+00	4.09E-06
	95UCL	3.73E-01	5.48E-06	2.30E-01	1.26E-06	1.90E+00	1.04E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-184
Risk Calculation Worksheet - Carcinogenic Effects: Adult Vehicle Washer - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	1.08E-05	2.30E-01	2.47E-06	1.90E+00	2.04E-05
	95UCL	3.73E-01	2.74E-05	2.30E-01	6.30E-06	1.90E+00	5.20E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-185

Risk Calculation Worksheet - Carcinogenic Effects: Adult Vehicle Washer - High Estimate Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	1.47E-01	2.58E-05	2.30E-01	5.94E-06	1.90E+00	4.91E-05
	95UCL	3.73E-01	6.57E-05	2.30E-01	1.51E-05	1.90E+00	1.25E-04

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-186

Risk Calculation Worksheet - Carcinogenic Effects: Adult Decon Vacuumer - One-Day Per Year Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	7.94E-07	2.30E-01	1.83E-07	1.90E+00	1.51E-06
	95UCL	7.37E-02	1.08E-06	2.30E-01	2.49E-07	1.90E+00	2.06E-06

Notes:

95UCL = 95% Upper Confidence Limit of the mean

Table G-187
Risk Calculation Worksheet - Carcinogenic Effects: Adult Decon Vacuumer - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	3.97E-06	2.30E-01	9.13E-07	1.90E+00	7.55E-06
	95UCL	7.37E-02	5.41E-06	2.30E-01	1.24E-06	1.90E+00	1.03E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-188
Risk Calculation Worksheet - Carcinogenic Effects: Adult Decon Vacuumer - High Estimate Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Vehicle Washer
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	5.41E-02	9.53E-06	2.30E-01	2.19E-06	1.90E+00	1.81E-05
	95UCL	7.37E-02	1.30E-05	2.30E-01	2.99E-06	1.90E+00	2.47E-05

Notes:
95UCL = 95% Upper Confidence Limit of the mean

Table G-189

Risk Calculation Worksheet - Carcinogenic Effects: Staging (1 hour) - One-Day Per Year Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	8.43E-08	2.30E-01	1.94E-08	1.90E+00	1.60E-07
	95UCL	3.44E-03	1.01E-07	2.30E-01	2.32E-08	1.90E+00	1.92E-07

Notes:

95UCL = 95% Upper Confidence Limit of the mean

EPC values are from Table G-1 ("Staging in CCMA").

Table G-190
Risk Calculation Worksheet - Carcinogenic Effects: Staging (1 hour) - Reasonable Maximum Exposure (RME) (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	4.22E-07	2.30E-01	9.70E-08	1.90E+00	8.01E-07
	95UCL	3.44E-03	5.05E-07	2.30E-01	1.16E-07	1.90E+00	9.59E-07

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA").

Table G-191

Risk Calculation Worksheet - Carcinogenic Effects: Staging (1 hour) - High Estimate Exposure (18-yr Exposure Duration)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	1
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	1.01E-06	2.30E-01	2.33E-07	1.90E+00	1.92E-06
	95UCL	3.44E-03	1.21E-06	2.30E-01	2.79E-07	1.90E+00	2.30E-06

Notes:

95UCL = 95% Upper Confidence Limit of the mean

EPC values are from Table G-1 ("Staging in CCMA").

Table G-192
Risk Calculation Worksheet - Carcinogenic Effects: Staging (1/2 hour) - One-Day Per Year Exposure (18-yr Exposure Duration)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	1-day per year
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	1
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	4.22E-08	2.30E-01	9.70E-09	1.90E+00	8.01E-08
	95UCL	3.44E-03	5.05E-08	2.30E-01	1.16E-08	1.90E+00	9.59E-08

Notes:
95UCL = 95% Upper Confidence Limit of the mean
EPC values are from Table G-1 ("Staging in CCMA").

Table G-193

Risk Calculation Worksheet - Carcinogenic Effects: Staging (1/2 hour) - Reasonable Maximum Exposure (RME)

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	RME
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	5
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	2.11E-07	2.30E-01	4.85E-08	1.90E+00	4.01E-07
	95UCL	3.44E-03	2.52E-07	2.30E-01	5.81E-08	1.90E+00	4.80E-07

Notes:

95UCL = 95% Upper Confidence Limit of the mean

EPC values are from Table G-1 ("Staging in CCMA").

Table G-194

Risk Calculation Worksheet - Carcinogenic Effects: Staging (1/2 hour) - High Estimate Exposure

Human Health Risk Assessment

CCMA Asbestos Exposures (All Events)

Exposure Scenario Information		
	Exposure Scenario:	Recreational User
	Exposure Medium:	Air
	Exposure:	High Estimate Exposure
	Receptor Population:	Staging
	Receptor Age:	Adult

Exposure Parameter (units)	**Variable**	**Value**
Exposure Frequency (days/year)	EF	12
Exposure Time for inhalation (hours/day)	ET	0.5
Exposure Duration (years)	ED	18
Averaging Time for carcinogens, 70 year lifetime (hours)	ATc	613,200

Risk Calculations

Exposure Route	**Asbestos**	**EPC Value [PCMe f/ml]**	**Chronic Exposure Concentration [PCMe f/ml]**	**IRIS Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**	**OEHHA Unit Risk [fibers/ml]$^{-1}$**	**Cancer Risk**
Inhalation							
	Mean Concentration	2.87E-03	5.06E-07	2.30E-01	1.16E-07	1.90E+00	9.61E-07
	95UCL	3.44E-03	6.06E-07	2.30E-01	1.39E-07	1.90E+00	1.15E-06

Notes:

95UCL = 95% Upper Confidence Limit of the mean

EPC values are from Table G-1 ("Staging in CCMA").

Table G-195
Sum of Child Plus Adult Excess Lifetime Cancer Risk Results (Mean Air Concentration) Using IRIS Unit Risk
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Area/ Receptor	One-Visit Per Year Exposure Cancer Risk			Reasonable Maximum Exposure (RME) Cancer Risk[1]			High Estimate Exposure Cancer Risk[2]		
Weekend Riding (Motorcycle)	Child (12 yrs)	Adult (18 yrs)	Total	Child (12 yrs)	Adult (18 yrs)	Total	Child (12 yrs)	Adult (18 yrs)	Total
Drive In (1 hr)	**1E-06**	1E-06	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Motorcycle Riding (6 hrs)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**6E-05**	**1E-04**	**1E-04**	**1E-04**	**3E-04**
Camping (9 hrs)	**2E-06**	**5E-06**	**7E-06**	**9E-06**	**3E-05**	**4E-05**	**2E-05**	**6E-05**	**9E-05**
Sleeping (8 hrs)	1E-08	2E-08	3E-08	5E-08	8E-08	1E-07	1E-07	2E-07	3E-07
Camping (3 hrs)	6E-07	**2E-06**	**2E-06**	**3E-06**	**9E-06**	**1E-05**	**7E-06**	**2E-05**	**3E-05**
Motorcycle Riding (5 hrs)	**8E-06**	**1E-05**	**2E-05**	**4E-05**	**5E-05**	**9E-05**	**1E-04**	**1E-04**	**2E-04**
Drive Out (1 hr)	**1E-06**	1E-06	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Decon Vehicle Wash (0.5 hr)	3E-07	5E-07	8E-07	**2E-06**	**2E-06**	**4E-06**	**4E-06**	**6E-06**	**1E-05**
Decon Vacuum (0.5 hr)	1E-07	2E-07	3E-07	6E-07	9E-07	**2E-06**	**1E-06**	**2E-06**	**4E-06**
Total:	**2E-05**	**3E-05**	**6E-05**	**1E-04**	**2E-04**	**3E-04**	**3E-04**	**4E-04**	**7E-04**
Day Use Riding (Motorcycle)									
Drive In (1 hr)	**1E-06**	**1E-06**	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Staging (1 hr)	1E-08	2E-08	3E-08	6E-08	1E-07	2E-07	2E-07	2E-07	4E-07
Motorcycle Riding (6 hrs)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**6E-05**	**1E-04**	**1E-04**	**1E-04**	**3E-04**
Staging (1 hr)	1E-08	2E-08	3E-08	6E-08	1E-07	2E-07	2E-07	2E-07	4E-07
Drive Out (1 hr)	**1E-06**	**1E-06**	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Decon Vehicle Wash (0.5 hr)	3E-07	5E-07	8E-07	**2E-06**	**2E-06**	**4E-06**	**4E-06**	**6E-06**	**1E-05**
Decon Vacuum (0.5 hr)	1E-07	2E-07	3E-07	6E-07	9E-07	**2E-06**	**1E-06**	**2E-06**	**4E-06**
Total:	**1E-05**	**2E-05**	**3E-05**	**6E-05**	**8E-05**	**1E-04**	**2E-04**	**2E-04**	**3E-04**
Day Use Riding (ATV)									
Drive In (1 hr)	**1E-06**	**1E-06**	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Staging (1 hr)	1E-08	2E-08	3E-08	6E-08	1E-07	2E-07	2E-07	2E-07	4E-07
ATV Riding (6 hrs)	**1E-05**	**1E-05**	**2E-05**	**6E-05**	**6E-05**	**1E-04**	**1E-04**	**2E-04**	**3E-04**
Staging (1 hr)	1E-08	2E-08	3E-08	6E-08	1E-07	2E-07	2E-07	2E-07	4E-07
Drive Out (1 hr)	**1E-06**	**1E-06**	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Decon Vehicle Wash (0.5 hr)	3E-07	5E-07	8E-07	**2E-06**	**2E-06**	**4E-06**	**4E-06**	**6E-06**	**1E-05**
Decon Vacuum (0.5 hr)	1E-07	2E-07	3E-07	6E-07	9E-07	**2E-06**	**1E-06**	**2E-06**	**4E-06**
Total:	**1E-05**	**2E-05**	**3E-05**	**7E-05**	**8E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**

Table G-195
Sum of Child Plus Adult Excess Lifetime Cancer Risk Results (Mean Air Concentration) Using IRIS Unit Risk
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Area/ Receptor	One-Visit Per Year Exposure Cancer Risk			Reasonable Maximum Exposure (RME) Cancer Risk[1]			High Estimate Exposure Cancer Risk[2]		
Day Use Hiking									
Drive In (1 hr)	**1E-06**	**1E-06**	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Staging (0.5 hr)	6E-09	1E-08	2E-08	3E-08	5E-08	8E-08	8E-08	1E-07	2E-07
Hiking (6 hrs)	7E-07	7E-07	**1E-06**	**4E-06**	**4E-06**	**7E-06**	**8E-06**	**9E-06**	**2E-05**
Staging (0.5 hr)	6E-09	1E-08	2E-08	3E-08	5E-08	8E-08	8E-08	1E-07	2E-07
Drive Out (1 hr)	**1E-06**	**1E-06**	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Total:	**2E-05**	**2E-05**	**4E-05**	**9E-05**	**1E-04**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Weekend Hunting									
Drive In (1 hr)	**1E-06**	**1E-06**	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Hiking (8 hrs)	9E-07	1E-06	**2E-06**	**5E-06**	**5E-06**	**1E-05**	**1E-05**	**1E-05**	**2E-05**
Camping (7 hrs)	**1E-06**	**4E-06**	**6E-06**	**7E-06**	**2E-05**	**3E-05**	**2E-05**	**5E-05**	**7E-05**
Sleeping (8 hrs)	1E-08	2E-08	3E-08	5E-08	8E-08	1E-07	1E-07	2E-07	3E-07
Camping (2 hrs)	4E-07	**1E-06**	**2E-06**	**2E-06**	**6E-06**	**8E-06**	**5E-06**	**1E-05**	**2E-05**
Hiking (6 hrs)	7E-07	7E-07	**1E-06**	**4E-06**	**4E-06**	**7E-06**	**8E-06**	**9E-06**	**2E-05**
Drive Out (1 hr)	**1E-06**	**1E-06**	**2E-06**	**6E-06**	**6E-06**	**1E-05**	**1E-05**	**1E-05**	**3E-05**
Decon Vehicle Wash (0.5 hr)	3E-07	5E-07	8E-07	**2E-06**	**2E-06**	**4E-06**	**4E-06**	**6E-06**	**1E-05**
Decon Vacuum (0.5 hr)	1E-07	2E-07	3E-07	6E-07	9E-07	**2E-06**	**1E-06**	**2E-06**	**4E-06**
Total:	**6E-06**	**1E-05**	**2E-05**	**3E-05**	**5E-05**	**8E-05**	**7E-05**	**1E-04**	**2E-04**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04
Total = Child (12 yr Exposure Duration) + Adult (18 yr Exposure Duration)
[1] RME = 5 visits per year
[2] High Estimate Exposure = 12 visits per year

Table G-196
Sum of Child Plus Adult Excess Lifetime Cancer Risk Results (95 UCL) Using IRIS Unit Risk
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Area/ Receptor	One-Visit Per Year Exposure Cancer Risk			Reasonable Maximum Exposure (RME) Cancer Risk[1]			High Estimate Exposure Cancer Risk[2]		
Weekend Riding (Motorcycle)	Child (12 yrs)	Adult (18 yrs)	Total	Child (12 yrs)	Adult (18 yrs)	Total	Child (12 yrs)	Adult (18 yrs)	Total
Drive In (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Motorcycle Riding (6 hrs)	**2E-05**	**2E-05**	**4E-05**	**9E-05**	**1E-04**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Camping (9 hrs)	**7E-06**	**3E-05**	**3E-05**	**4E-05**	**1E-04**	**2E-04**	**9E-05**	**3E-04**	**4E-04**
Sleeping (8 hrs)	2E-08	3E-08	4E-08	9E-08	1E-07	2E-07	2E-07	3E-07	5E-07
Camping (3 hrs)	**2E-06**	**9E-06**	**1E-05**	**1E-05**	**4E-05**	**6E-05**	**3E-05**	**1E-04**	**1E-04**
Motorcycle Riding (5 hrs)	**1E-05**	**2E-05**	**3E-05**	**7E-05**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Drive Out (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Decon Vehicle Wash (0.5 hr)	8E-07	1E-06	**2E-06**	**4E-06**	**6E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**
Decon Vacuum (0.5 hr)	2E-07	2E-07	4E-07	8E-07	**1E-06**	**2E-06**	**2E-06**	**3E-06**	**5E-06**
Total:	**5E-05**	**8E-05**	**1E-04**	**2E-04**	**4E-04**	**6E-04**	**6E-04**	**9E-04**	**2E-03**
Day Use Riding (Motorcycle)									
Drive In (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Staging (1 hr)	2E-08	2E-08	4E-08	8E-08	1E-07	2E-07	2E-07	3E-07	5E-07
Motorcycle Riding (6 hrs)	**2E-05**	**2E-05**	**4E-05**	**8E-05**	**1E-04**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Staging (1 hr)	2E-08	2E-08	4E-08	8E-08	1E-07	2E-07	2E-07	3E-07	5E-07
Drive Out (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Decon Vehicle Wash (0.5 hr)	8E-07	**1E-06**	**2E-06**	**4E-06**	**6E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**
Decon Vacuum (0.5 hr)	2E-07	2E-07	4E-07	8E-07	**1E-06**	**2E-06**	**2E-06**	**3E-06**	**5E-06**
Total:	**2E-05**	**3E-05**	**5E-05**	**1E-04**	**1E-04**	**2E-04**	**3E-04**	**3E-04**	**6E-04**
Day Use Riding (ATV)									
Drive In (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Staging (1 hr)	2E-08	2E-08	4E-08	8E-08	1E-07	2E-07	2E-07	3E-07	5E-07
ATV Riding (6 hrs)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**1E-04**	**2E-04**	**2E-04**	**3E-04**	**5E-04**
Staging (1 hr)	2E-08	2E-08	4E-08	8E-08	1E-07	2E-07	2E-07	3E-07	5E-07
Drive Out (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Decon Vehicle Wash (0.5 hr)	8E-07	**1E-06**	**2E-06**	**4E-06**	**6E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**
Decon Vacuum (0.5 hr)	2E-07	2E-07	4E-07	8E-07	**1E-06**	**2E-06**	**2E-06**	**3E-06**	**5E-06**
Total:	**3E-05**	**3E-05**	**6E-05**	**1E-04**	**2E-04**	**3E-04**	**3E-04**	**4E-04**	**7E-04**

Table G-196
Sum of Child Plus Adult Excess Lifetime Cancer Risk Results (95 UCL) Using IRIS Unit Risk
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Area/ Receptor	One-Visit Per Year Exposure Cancer Risk			Reasonable Maximum Exposure (RME) Cancer Risk[1]			High Estimate Exposure Cancer Risk[2]		
Day Use Hiking									
Drive In (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Staging (0.5 hr)	8E-09	1E-08	2E-08	4E-08	6E-08	1E-07	9E-08	1E-07	2E-07
Hiking (6 hrs)	**1E-06**	8E-07	**2E-06**	**7E-06**	**4E-06**	**1E-05**	**2E-05**	**1E-05**	**3E-05**
Staging (0.5 hr)	8E-09	1E-08	2E-08	4E-08	6E-08	1E-07	9E-08	1E-07	2E-07
Drive Out (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Total:	**3E-05**	**4E-05**	**7E-05**	**2E-04**	**2E-04**	**3E-04**	**4E-04**	**4E-04**	**8E-04**
Weekend Hunting									
Drive In (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Hiking (8 hrs)	**2E-06**	**1E-06**	**3E-06**	**9E-06**	**6E-06**	**1E-05**	**2E-05**	**1E-05**	**3E-05**
Camping (7 hrs)	**6E-06**	**2E-05**	**3E-05**	**3E-05**	**1E-04**	**1E-04**	**7E-05**	**2E-04**	**3E-04**
Sleeping (8 hrs)	2E-08	3E-08	4E-08	9E-08	1E-07	2E-07	2E-07	3E-07	5E-07
Camping (2 hrs)	**2E-06**	**6E-06**	**8E-06**	**8E-06**	**3E-05**	**4E-05**	**2E-05**	**7E-05**	**9E-05**
Hiking (6 hrs)	**1E-06**	8E-07	**2E-06**	**7E-06**	**4E-06**	**1E-05**	**2E-05**	**1E-05**	**3E-05**
Drive Out (1 hr)	**2E-06**	**2E-06**	**4E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**
Decon Vehicle Wash (0.5 hr)	8E-07	**1E-06**	**2E-06**	**4E-06**	**6E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**
Decon Vacuum (0.5 hr)	2E-07	2E-07	4E-07	8E-07	**1E-06**	**2E-06**	**2E-06**	**3E-06**	**5E-06**
Total:	**2E-05**	**3E-05**	**5E-05**	**8E-05**	**2E-04**	**3E-04**	**2E-04**	**4E-04**	**6E-04**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04
Total = Child (12 yr Exposure Duration) + Adult (18 yr Exposure Duration)
[1] RME = 5 visits per year
[2] High Estimate Exposure = 12 visits per year

Table G-197
Sum of Child Plus Adult Excess Lifetime Cancer Risk Results (Mean Air Concentration) Using OEHHA Unit Risk
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Area/ Receptor	One-Visit Per Year Exposure Cancer Risk			Reasonable Maximum Exposure (RME) Cancer Risk[1]			High Estimate Exposure Cancer Risk[2]		
Weekend Riding (Motorcycle)	Child (12 yrs)	Adult (18 yrs)	Total	Child (12 yrs)	Adult (18 yrs)	Total	Child (12 yrs)	Adult (18 yrs)	Total
Drive In (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Motorcycle Riding (6 hrs)	**8E-05**	**1E-04**	**2E-04**	**4E-04**	**5E-04**	**9E-04**	**1E-03**	**1E-03**	**2E-03**
Camping (9 hrs)	**2E-05**	**4E-05**	**6E-05**	**8E-05**	**2E-04**	**3E-04**	**2E-04**	**5E-04**	**7E-04**
Sleeping (8 hrs)	9E-08	1E-07	2E-07	4E-07	7E-07	**1E-06**	**1E-06**	**2E-06**	**3E-06**
Camping (3 hrs)	**5E-06**	**1E-05**	**2E-05**	**3E-05**	**7E-05**	**1E-04**	**6E-05**	**2E-04**	**2E-04**
Motorcycle Riding (5 hrs)	**7E-05**	**9E-05**	**2E-04**	**3E-04**	**4E-04**	**8E-04**	**8E-04**	**1E-03**	**2E-03**
Drive Out (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Decon Vehicle Wash (0.5 hr)	**3E-06**	**4E-06**	**7E-06**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**	**8E-05**
Decon Vacuum (0.5 hr)	**1E-06**	**2E-06**	**3E-06**	**5E-06**	**8E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**
Total:	**2E-04**	**3E-04**	**5E-04**	**1E-03**	**1E-03**	**2E-03**	**2E-03**	**3E-03**	**6E-03**
Day Use Riding (Motorcycle)									
Drive In (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Staging (1 hr)	1E-07	2E-07	3E-07	5E-07	8E-07	**1E-06**	1E-06	**2E-06**	**3E-06**
Motorcycle Riding (6 hrs)	**8E-05**	**1E-04**	**2E-04**	**4E-04**	**5E-04**	**9E-04**	**1E-03**	**1E-03**	**2E-03**
Staging (1 hr)	1E-07	2E-07	3E-07	5E-07	8E-07	**1E-06**	1E-06	**2E-06**	**3E-06**
Drive Out (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Decon Vehicle Wash (0.5 hr)	**3E-06**	**4E-06**	**7E-06**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**	**8E-05**
Decon Vacuum (0.5 hr)	**1E-06**	**2E-06**	**3E-06**	**5E-06**	**8E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**
Total:	**1E-04**	**1E-04**	**2E-04**	**5E-04**	**6E-04**	**1E-03**	**1E-03**	**2E-03**	**3E-03**
Day Use Riding (ATV)									
Drive In (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Staging (1 hr)	1E-07	2E-07	3E-07	5E-07	8E-07	**1E-06**	1E-06	**2E-06**	**3E-06**
ATV Riding (6 hrs)	**1E-04**	**1E-04**	**2E-04**	**5E-04**	**5E-04**	**1E-03**	**1E-03**	**1E-03**	**2E-03**
Staging (1 hr)	1E-07	2E-07	3E-07	5E-07	8E-07	**1E-06**	1E-06	**2E-06**	**3E-06**
Drive Out (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Decon Vehicle Wash (0.5 hr)	**3E-06**	**4E-06**	**7E-06**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**	**8E-05**
Decon Vacuum (0.5 hr)	**1E-06**	**2E-06**	**3E-06**	**5E-06**	**8E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**
Total:	**1E-04**	**1E-04**	**3E-04**	**6E-04**	**7E-04**	**1E-03**	**1E-03**	**2E-03**	**3E-03**

Table G-197
Sum of Child Plus Adult Excess Lifetime Cancer Risk Results (Mean Air Concentration) Using OEHHA Unit Risk
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Area/ Receptor	One-Visit Per Year Exposure Cancer Risk			Reasonable Maximum Exposure (RME) Cancer Risk[1]			High Estimate Exposure Cancer Risk[2]		
Day Use Hiking									
Drive In (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Staging (0.5 hr)	5E-08	8E-08	1E-07	3E-07	4E-07	7E-07	6E-07	1E-06	**2E-06**
Hiking (6 hrs)	**6E-06**	**6E-06**	**1E-05**	**3E-05**	**3E-05**	**6E-05**	**7E-05**	**7E-05**	**1E-04**
Staging (0.5 hr)	5E-08	8E-08	1E-07	3E-07	4E-07	7E-07	6E-07	1E-06	**2E-06**
Drive Out (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Total:	**1E-04**	**2E-04**	**3E-04**	**7E-04**	**8E-04**	**2E-03**	**2E-03**	**2E-03**	**4E-03**
Weekend Hunting									
Drive In (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Hiking (8 hrs)	**8E-06**	**8E-06**	**2E-05**	**4E-05**	**4E-05**	**8E-05**	**9E-05**	**1E-04**	**2E-04**
Camping (7 hrs)	**1E-05**	**3E-05**	**4E-05**	**6E-05**	**2E-04**	**3E-04**	**1E-04**	**4E-04**	**5E-04**
Sleeping (8 hrs)	9E-08	1E-07	2E-07	4E-07	7E-07	**1E-06**	**1E-06**	**2E-06**	**3E-06**
Camping (2 hrs)	**3E-06**	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**7E-05**	**4E-05**	**1E-04**	**2E-04**
Hiking (6 hrs)	**6E-06**	**6E-06**	**1E-05**	**3E-05**	**3E-05**	**6E-05**	**7E-05**	**7E-05**	**1E-04**
Drive Out (1 hr)	**1E-05**	**1E-05**	**2E-05**	**5E-05**	**5E-05**	**1E-04**	**1E-04**	**1E-04**	**2E-04**
Decon Vehicle Wash (0.5 hr)	**3E-06**	**4E-06**	**7E-06**	**1E-05**	**2E-05**	**3E-05**	**3E-05**	**5E-05**	**8E-05**
Decon Vacuum (0.5 hr)	**1E-06**	**2E-06**	**3E-06**	**5E-06**	**8E-06**	**1E-05**	**1E-05**	**2E-05**	**3E-05**
Total:	**5E-05**	**8E-05**	**1E-04**	**3E-04**	**5E-04**	**7E-04**	**6E-04**	**1E-03**	**2E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04
Total = Child (12 yr Exposure Duration) + Adult (18 yr Exposure Duration)
[1] RME = 5 visits per year
[2] High Estimate Exposure = 12 visits per year

Table G-198
Sum of Child Plus Adult Excess Lifetime Cancer Risk Results (95 UCL) Using OEHHA Unit Risk
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Area/ Receptor	One-Visit Per Year Exposure Cancer Risk			Reasonable Maximum Exposure (RME) Cancer Risk[1]			High Estimate Exposure Cancer Risk[2]		
Weekend Riding (Motorcycle)	Child (12 yrs)	Adult (18 yrs)	Total	Child (12 yrs)	Adult (18 yrs)	Total	Child (12 yrs)	Adult (18 yrs)	Total
Drive In (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Motorcycle Riding (6 hrs)	**1E-04**	**2E-04**	**3E-04**	**7E-04**	**8E-04**	**2E-03**	**2E-03**	**2E-03**	**4E-03**
Camping (9 hrs)	**6E-05**	**2E-04**	**3E-04**	**3E-04**	**1E-03**	**1E-03**	**7E-04**	**3E-03**	**3E-03**
Sleeping (8 hrs)	1E-07	2E-07	4E-07	7E-07	**1E-06**	**2E-06**	**2E-06**	**3E-06**	**4E-06**
Camping (3 hrs)	**2E-05**	**7E-05**	**9E-05**	**1E-04**	**4E-04**	**5E-04**	**2E-04**	**9E-04**	**1E-03**
Motorcycle Riding (5 hrs)	**1E-04**	**1E-04**	**3E-04**	**6E-04**	**7E-04**	**1E-03**	**1E-03**	**2E-03**	**3E-03**
Drive Out (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Decon Vehicle Wash (0.5 hr)	**7E-06**	**1E-05**	**2E-05**	**3E-05**	**5E-05**	**9E-05**	**8E-05**	**1E-04**	**2E-04**
Decon Vacuum (0.5 hr)	**1E-06**	**2E-06**	**3E-06**	**7E-06**	**1E-05**	**2E-05**	**2E-05**	**2E-05**	**4E-05**
Total:	**4E-04**	**7E-04**	**1E-03**	**2E-03**	**3E-03**	**5E-03**	**5E-03**	**8E-03**	**1E-02**
Day Use Riding (Motorcycle)									
Drive In (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Staging (1 hr)	1E-07	2E-07	3E-07	6E-07	1E-06	**2E-06**	**2E-06**	**2E-06**	**4E-06**
Motorcycle Riding (6 hrs)	**1E-04**	**2E-04**	**3E-04**	**7E-04**	**8E-04**	**2E-03**	**2E-03**	**2E-03**	**4E-03**
Staging (1 hr)	1E-07	2E-07	3E-07	6E-07	1E-06	**2E-06**	**2E-06**	**2E-06**	**4E-06**
Drive Out (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Decon Vehicle Wash (0.5 hr)	**7E-06**	**1E-05**	**2E-05**	**3E-05**	**5E-05**	**9E-05**	**8E-05**	**1E-04**	**2E-04**
Decon Vacuum (0.5 hr)	**1E-06**	**2E-06**	**3E-06**	**7E-06**	**1E-05**	**2E-05**	**2E-05**	**2E-05**	**4E-05**
Total:	**2E-04**	**2E-04**	**4E-04**	**9E-04**	**1E-03**	**2E-03**	**2E-03**	**3E-03**	**5E-03**
Day Use Riding (ATV)									
Drive In (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Staging (1 hr)	1E-07	2E-07	3E-07	6E-07	1E-06	**2E-06**	1E-07	2E-07	3E-07
ATV Riding (6 hrs)	**2E-04**	**2E-04**	**4E-04**	**8E-04**	**1E-03**	**2E-03**	**2E-03**	**2E-03**	**4E-03**
Staging (1 hr)	1E-07	2E-07	3E-07	6E-07	1E-06	**2E-06**	1E-07	2E-07	3E-07
Drive Out (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Decon Vehicle Wash (0.5 hr)	**7E-06**	**1E-05**	**2E-05**	**3E-05**	**5E-05**	**9E-05**	**8E-05**	**1E-04**	**2E-04**
Decon Vacuum (0.5 hr)	**1E-06**	**2E-06**	**3E-06**	**7E-06**	**1E-05**	**2E-05**	**2E-05**	**2E-05**	**4E-05**
Total:	**2E-04**	**3E-04**	**5E-04**	**1E-03**	**1E-03**	**2E-03**	**3E-03**	**3E-03**	**6E-03**

Table G-198
Sum of Child Plus Adult Excess Lifetime Cancer Risk Results (95 UCL) Using OEHHA Unit Risk
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Exposure Area/ Receptor	One-Visit Per Year Exposure Cancer Risk			Reasonable Maximum Exposure (RME) Cancer Risk[1]			High Estimate Exposure Cancer Risk[2]		
Day Use Hiking									
Drive In (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Staging (0.5 hr)	6E-08	1E-07	2E-07	3E-07	5E-07	8E-07	8E-07	**1E-06**	**2E-06**
Hiking (6 hrs)	**1E-05**	**7E-06**	**2E-05**	**6E-05**	**4E-05**	**1E-04**	**1E-04**	**8E-05**	**2E-04**
Staging (0.5 hr)	6E-08	1E-07	2E-07	3E-07	5E-07	8E-07	8E-07	**1E-06**	**2E-06**
Drive Out (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Total:	**3E-04**	**3E-04**	**6E-04**	**1E-03**	**1E-03**	**3E-03**	**3E-03**	**4E-03**	**7E-03**
Weekend Hunting									
Drive In (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Hiking (8 hrs)	**2E-05**	**9E-06**	**2E-05**	**8E-05**	**5E-05**	**1E-04**	**2E-04**	**1E-04**	**3E-04**
Camping (7 hrs)	**5E-05**	**2E-04**	**2E-04**	**2E-04**	**9E-04**	**1E-03**	**6E-04**	**2E-03**	**3E-03**
Sleeping (8 hrs)	1E-07	2E-07	4E-07	7E-07	**1E-06**	**2E-06**	**2E-06**	**3E-06**	**4E-06**
Camping (2 hrs)	**1E-05**	**5E-05**	**6E-05**	**7E-05**	**2E-04**	**3E-04**	**2E-04**	**6E-04**	**8E-04**
Hiking (6 hrs)	**1E-05**	**7E-06**	**2E-05**	**6E-05**	**4E-05**	**1E-04**	**1E-04**	**8E-05**	**2E-04**
Drive Out (1 hr)	**2E-05**	**2E-05**	**4E-05**	**1E-04**	**9E-05**	**2E-04**	**2E-04**	**2E-04**	**4E-04**
Decon Vehicle Wash (0.5 hr)	**7E-06**	**1E-05**	**2E-05**	**3E-05**	**5E-05**	**9E-05**	**8E-05**	**1E-04**	**2E-04**
Decon Vacuum (0.5 hr)	**1E-06**	**2E-06**	**3E-06**	**7E-06**	**1E-05**	**2E-05**	**2E-05**	**2E-05**	**4E-05**
Total:	**1E-04**	**3E-04**	**4E-04**	**7E-04**	**1E-03**	**2E-03**	**2E-03**	**3E-03**	**5E-03**

Notes:
There is an automatic rounding function in Excel; therefore, some values in the summary table may be slightly different than values in the individual calculation tables.
Bolded results (Shaded) = an excess lifetime cancer risk greater than 1E-04
Total = Child (12 yr Exposure Duration) + Adult (18 yr Exposure Duration)
[1] RME = 5 visits per year
[2] High Estimate Exposure = 12 visits per year

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
7/1/2004	0	0	0	0.00
7/2/2004	--	0	0	0.00
7/3/2004	0	0	0	0.00
7/4/2004	0	0	0	0.00
7/5/2004	0	0	0	0.00
7/6/2004	0	0	0	0.00
7/7/2004	0	0	0	0.00
7/8/2004	0	0	0	0.00
7/9/2004	0	0	0	0.00
7/10/2004	0	0	0	0.00
7/11/2004	0	0	0	0.00
7/12/2004	0	0	0	0.00
7/13/2004	0	0	0	0.00
7/14/2004	0	0	0	0.00
7/15/2004	0	0	0	0.00
7/16/2004	0	0	0	0.00
7/17/2004	0	0	0	0.00
7/18/2004	0	0	0	0.00
7/19/2004	0	0	0	0.00
7/20/2004	0	0	0	0.00
7/21/2004	0	0	0	0.00
7/22/2004	0	0	0	0.00
7/23/2004	0	0	0	0.00
7/24/2004	0	0	0	0.00
7/25/2004	0	0	0	0.00
7/26/2004	0	0	0	0.00
7/27/2004	0	0	0	0.00
7/28/2004	0	0	0	0.00
7/29/2004	0	0	0	0.00
7/30/2004	0	0	0	0.00
7/31/2004	0	0	0	0.00
8/1/2004	0	0	0	0.00
8/2/2004	0	0	0	0.00
8/3/2004	0	0	0	0.00
8/4/2004	0	0	0	0.00
8/5/2004	0	0	0	0.00
8/6/2004	0	0	0	0.00
8/7/2004	0	0	0	0.00
8/8/2004	0	0	0	0.00
8/9/2004	0	0	0	0.00
8/10/2004	0	0	0	0.00
8/11/2004	0	0	0	0.00
8/12/2004	0	0	0	0.00
8/13/2004	0	0	0	0.00
8/14/2004	0	0	0	0.00
8/15/2004	0	0	0	0.00
8/16/2004	0	0	0	0.00
8/17/2004	0	0	0	0.00
8/18/2004	0	0	0	0.00
8/19/2004	0	0	0	0.00
8/20/2004	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
8/21/2004	0	0	0	0.00
8/22/2004	0	0	0	0.00
8/23/2004	0	0	0	0.00
8/24/2004	0	0	0	0.00
8/25/2004	0	0	0	0.00
8/26/2004	0	0	0	0.00
8/27/2004	0	0	0	0.00
8/28/2004	0	0	0	0.00
8/29/2004	0	0	0	0.00
8/30/2004	0	0	0	0.00
8/31/2004	0	0	0	0.00
9/1/2004	0	0	0	0.00
9/2/2004	0	0	0	0.00
9/3/2004	0	0	0	0.00
9/4/2004	0	0	0	0.00
9/5/2004	0	0	0	0.00
9/6/2004	0	0	0	0.00
9/7/2004	0	0	0	0.00
9/8/2004	0	0	0	0.00
9/9/2004	0	0	0	0.00
9/10/2004	0	0	0	0.00
9/11/2004	0	0	0	0.00
9/12/2004	0	0	0	0.00
9/13/2004	0	0	0	0.00
9/14/2004	0	0	0	0.00
9/15/2004	0	0	0	0.00
9/16/2004	0	0	0	0.00
9/17/2004	0	0	0	0.00
9/18/2004	0	0	0	0.00
9/19/2004	0	0	0.02	0.01
9/20/2004	0	0	0	0.00
9/21/2004	0	0	0	0.00
9/22/2004	0	0	0	0.00
9/23/2004	0	0	0	0.00
9/24/2004	0	0	0	0.00
9/25/2004	0	0	0	0.00
9/26/2004	0	0	0	0.00
9/27/2004	0	0	0	0.00
9/28/2004	0	0	0	0.00
9/29/2004	0	0	0	0.00
9/30/2004	0	0	0	0.00
10/1/2004	0	0	0	0.00
10/2/2004	0	0	0	0.00
10/3/2004	0	0	0	0.00
10/4/2004	0	0	0	0.00
10/5/2004	0	0	0	0.00
10/6/2004	0	0	0	0.00
10/7/2004	0	0	0	0.00
10/8/2004	0	0	0	0.00
10/9/2004	0	0	0	0.00
10/10/2004	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
10/11/2004	0	0	0	0.00
10/12/2004	0	0	0	0.00
10/13/2004	0	0	0	0.00
10/14/2004	0	0	0	0.00
10/15/2004	0	0	0	0.00
10/16/2004	0.17	0.24	0.17	0.19
10/17/2004	0.75	0.56	1.26	0.86
10/18/2004	0.16	0.12	0.25	0.18
10/19/2004	1.24	1.76	1.88	1.63
10/20/2004	0.57	0.48	0.44	0.50
10/21/2004	0	0	0.01	0.00
10/22/2004	0	0	0	0.00
10/23/2004	0	0	0	0.00
10/24/2004	0	0	0.01	0.00
10/25/2004	0	0	0	0.00
10/26/2004	0.88	1.48	0.75	1.04
10/27/2004	0.07	0.12	0.17	0.12
10/28/2004	0	0	0.01	0.00
10/29/2004	0	0	0	0.00
10/30/2004	0	0	0	0.00
10/31/2004	0	0	0	0.00
11/1/2004	0	0	0	0.00
11/2/2004	0	0	0	0.00
11/3/2004	0.04	0.04	0.14	0.07
11/4/2004	0.37	0.36	0.25	0.33
11/5/2004	0	0	0.03	0.01
11/6/2004	0	0	0	0.00
11/7/2004	0	0	0	0.00
11/8/2004	0	0	0	0.00
11/9/2004	0	0	0	0.00
11/10/2004	0.01	0.04	0.03	0.03
11/11/2004	0.04	0	0.03	0.02
11/12/2004	0.01	0	0	0.00
11/13/2004	0.07	0.08	0.07	0.07
11/14/2004	0	0	0	0.00
11/15/2004	0	0	0	0.00
11/16/2004	0	0	0	0.00
11/17/2004	0	0	0	0.00
11/18/2004	0	0	0	0.00
11/19/2004	0	0	--	0.00
11/20/2004	0	0	0	0.00
11/21/2004	0	0	0	0.00
11/22/2004	0	0	0	0.00
11/23/2004	0	0	0	0.00
11/24/2004	0	0	0	0.00
11/25/2004	0	0	0	0.00
11/26/2004	0	0	0	0.00
11/27/2004	0.05	0.04	0.08	0.06
11/28/2004	0	0	0	0.00
11/29/2004	0	0	0	0.00
11/30/2004	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
12/1/2004	0	0	0	0.00
12/2/2004	0	0	0	0.00
12/3/2004	0	0	0	0.00
12/4/2004	0	0	0	0.00
12/5/2004	0	0	0	0.00
12/6/2004	0	0	0	0.00
12/7/2004	0.92	0.56	0.88	0.79
12/8/2004	0.12	0	0.06	0.06
12/9/2004	0	0	0	0.00
12/10/2004	0	0	0	0.00
12/11/2004	0	0	0	0.00
12/12/2004	0	0	0	0.00
12/13/2004	0	0	0	0.00
12/14/2004	0	0	0	0.00
12/15/2004	0	0	0	0.00
12/16/2004	0	0	0	0.00
12/17/2004	0	0	0	0.00
12/18/2004	0	0	0	0.00
12/19/2004	0	0	0	0.00
12/20/2004	0	0	0	0.00
12/21/2004	0	0	0	0.00
12/22/2004	0	0	0	0.00
12/23/2004	0	0	0	0.00
12/24/2004	0	0	0	0.00
12/25/2004	0	0	0	0.00
12/26/2004	0.16	0.12	0.26	0.18
12/27/2004	1.81	2.68	0.69	1.73
12/28/2004	0.7	1.16	0.3	0.72
12/29/2004	0.18	0.04	0.03	0.08
12/30/2004	2.32	2.36	2.83	2.50
12/31/2004	0.54	0.76	1.01	0.77
1/1/2005	0.14	0.12	0.03	0.10
1/2/2005	0.53	0.84	0	0.46
1/3/2005	0.11	0.04	0.01	0.05
1/4/2005	0.02	0.04	0.05	0.04
1/5/2005	0	0	0.06	0.02
1/6/2005	0	0	0.12	0.04
1/7/2005	1.54	2.6	1.22	1.79
1/8/2005	0.45	0.56	0.71	0.57
1/9/2005	0.82	0.4	0.57	0.60
1/10/2005	0.5	0.56	0.4	0.49
1/11/2005	0.17	0.08	--	0.12
1/12/2005	0.01	0	--	0.01
1/13/2005	0	0	0	0.00
1/14/2005	0	0	0	0.00
1/15/2005	0	0	0	0.00
1/16/2005	0	0	0	0.00
1/17/2005	0	0	0	0.00
1/18/2005	0	0	0	0.00
1/19/2005	0	0	0	0.00
1/20/2005	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
1/21/2005	0	0	0	0.00
1/22/2005	0	0	0	0.00
1/23/2005	0	0	0	0.00
1/24/2005	0.01	0	0	0.00
1/25/2005	0	0	0	0.00
1/26/2005	0.45	0.2	0.35	0.33
1/27/2005	0.05	0.04	0.02	0.04
1/28/2005	0.48	0.72	0.61	0.60
1/29/2005	0.01	0	0.04	0.02
1/30/2005	0	0	0	0.00
1/31/2005	0	0	0	0.00
2/1/2005	0	0	0	0.00
2/2/2005	0	0	0	0.00
2/3/2005	0	0	0	0.00
2/4/2005	0	0	0	0.00
2/5/2005	0	0	0	0.00
2/6/2005	0	0	0	0.00
2/7/2005	0.03	0.16	0.03	0.07
2/8/2005	0.01	0	0	0.00
2/9/2005	0	0	0	0.00
2/10/2005	0	0	0	0.00
2/11/2005	0.12	0.16	0.16	0.15
2/12/2005	0.04	0.04	0.03	0.04
2/13/2005	0.01	0	0	0.00
2/14/2005	0.09	0.04	0.08	0.07
2/15/2005	1.38	0.96	1.42	1.25
2/16/2005	0.43	0.4	0.36	0.40
2/17/2005	0.24	0.28	0.01	0.18
2/18/2005	0.73	1.08	0.02	0.61
2/19/2005	0.67	0.52	0	0.40
2/20/2005	0.28	0.28	0.01	0.19
2/21/2005	0.54	0.4	0.2	0.38
2/22/2005	0.11	0.08	0.05	0.08
2/23/2005	0.46	0	0.01	0.16
2/24/2005	0	0	0.1	0.03
2/25/2005	0	0	0.72	0.24
2/26/2005	0	0	0.04	0.01
2/27/2005	0.31	0.12	0.3	0.24
2/28/2005	0.3	0.6	0.39	0.43
3/1/2005	0	0	0	0.00
3/2/2005	0.19	0.12	0.33	0.21
3/3/2005	0.09	0.04	0.14	0.09
3/4/2005	0.16	0.2	0.15	0.17
3/5/2005	0	0	0	0.00
3/6/2005	0	0	0	0.00
3/7/2005	0	0	0	0.00
3/8/2005	0	0	0	0.00
3/9/2005	0	0	0	0.00
3/10/2005	0	0	0	0.00
3/11/2005	0	0	0	0.00
3/12/2005	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
3/13/2005	0	0	0	0.00
3/14/2005	0	0	0	0.00
3/15/2005	0	0	0	0.00
3/16/2005	0	0	0	0.00
3/17/2005	0	0	0	0.00
3/18/2005	0.05	0	0.02	0.02
3/19/2005	0.21	0.04	0.34	0.20
3/20/2005	0.02	0	0.01	0.01
3/21/2005	0.14	0.08	0.24	0.15
3/22/2005	1.38	1.04	1.35	1.26
3/23/2005	0.11	0.04	0.11	0.09
3/24/2005	0	0	0	0.00
3/25/2005	0	0	0	0.00
3/26/2005	0	0	0	0.00
3/27/2005	0.02	0	0	0.01
3/28/2005	0.09	0.08	0.07	0.08
3/29/2005	0.06	0	0.03	0.03
3/30/2005	0.01	0	0	0.00
3/31/2005	0	0	0	0.00
4/1/2005	0	0	0	0.00
4/2/2005	0	0	0	0.00
4/3/2005	0.14	0.04	0	0.06
4/4/2005	0.03	0.04	0.01	0.03
4/5/2005	0	0	0	0.00
4/6/2005	0	0	0	0.00
4/7/2005	0.02	0	0	0.01
4/8/2005	0.08	0.12	0.24	0.15
4/9/2005	0.06	0.08	0.11	0.08
4/10/2005	0	0	0	0.00
4/11/2005	0	0	0	0.00
4/12/2005	0	0	0	0.00
4/13/2005	0	0	0	0.00
4/14/2005	0	0	0	0.00
4/15/2005	0	0	0	0.00
4/16/2005	0	0	0	0.00
4/17/2005	0	0	0	0.00
4/18/2005	0	0	0	0.00
4/19/2005	0	0	0	0.00
4/20/2005	0	0	0	0.00
4/21/2005	0	0	0	0.00
4/22/2005	0	0	0	0.00
4/23/2005	0.18	0.04	0	0.07
4/24/2005	0	0	0	0.00
4/25/2005	0	0	0	0.00
4/26/2005	0	0	0	0.00
4/27/2005	0.04	0.04	0.08	0.05
4/28/2005	0.33	0.12	0.18	0.21
4/29/2005	0	0	0	0.00
4/30/2005	0	0	0	0.00
5/1/2005	0	0	0	0.00
5/2/2005	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
5/3/2005	0	0	0	0.00
5/4/2005	0.01	0.16	0.1	0.09
5/5/2005	0.16	0.28	0.51	0.32
5/6/2005	0	0.04	0.01	0.02
5/7/2005	0	0	0	0.00
5/8/2005	0.28	0.08	0.16	0.17
5/9/2005	0.21	0.04	0.11	0.12
5/10/2005	0	0	0	0.00
5/11/2005	0	0	0	0.00
5/12/2005	0	0	0	0.00
5/13/2005	0	0	0	0.00
5/14/2005	0	0	0	0.00
5/15/2005	0	0	0	0.00
5/16/2005	0.01	0	0.01	0.01
5/17/2005	0	0	0	0.00
5/18/2005	0	0	0	0.00
5/19/2005	0	0	0	0.00
5/20/2005	0	0	0	0.00
5/21/2005	0	0	0	0.00
5/22/2005	0	0	0	0.00
5/23/2005	0	0	0	0.00
5/24/2005	0	0	0	0.00
5/25/2005	0	0	0	0.00
5/26/2005	0	0	0	0.00
5/27/2005	0	0	0	0.00
5/28/2005	0	0	0	0.00
5/29/2005	0	0	0	0.00
5/30/2005	0	0	0	0.00
5/31/2005	0	0	0	0.00
6/1/2005	0	0	0	0.00
6/2/2005	0	0	0	0.00
6/3/2005	0	0	0	0.00
6/4/2005	0	0	0	0.00
6/5/2005	0	0	0	0.00
6/6/2005	0	0	0	0.00
6/7/2005	0	0	0	0.00
6/8/2005	0	0	0.05	0.02
6/9/2005	0.08	0	0.03	0.04
6/10/2005	0	0	0	0.00
6/11/2005	0	0	0	0.00
6/12/2005	0	0	0	0.00
6/13/2005	0	0	0	0.00
6/14/2005	0	0	0	0.00
6/15/2005	0	0	0	0.00
6/16/2005	0	0	0	0.00
6/17/2005	0.02	0	0	0.01
6/18/2005	0	0	0	0.00
6/19/2005	0	0	0	0.00
6/20/2005	0	0	0	0.00
6/21/2005	0	0	0	0.00
6/22/2005	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
6/23/2005	0	0	0	0.00
6/24/2005	0	0	0	0.00
6/25/2005	0	0	0	0.00
6/26/2005	0	0	0	0.00
6/27/2005	0	0	0	0.00
6/28/2005	0	0	0	0.00
6/29/2005	0	0	0	0.00
6/30/2005	0	0	0	0.00
7/1/2005	0	0	0	0.00
7/2/2005	0	0	0	0.00
7/3/2005	0	0	0	0.00
7/4/2005	0	0	0	0.00
7/5/2005	0	0	0	0.00
7/6/2005	0	0	0	0.00
7/7/2005	0	0	0	0.00
7/8/2005	0	0	0	0.00
7/9/2005	0	0	0	0.00
7/10/2005	0	0	0	0.00
7/11/2005	0	0	0	0.00
7/12/2005	0	0	0	0.00
7/13/2005	0	0	0	0.00
7/14/2005	0	0	0	0.00
7/15/2005	0	0	0	0.00
7/16/2005	0	0	0	0.00
7/17/2005	0	0	0	0.00
7/18/2005	0	0	0	0.00
7/19/2005	0	0	0	0.00
7/20/2005	0	0	0	0.00
7/21/2005	0	0	0	0.00
7/22/2005	--	0	0	0.00
7/23/2005	0	0	0	0.00
7/24/2005	0	0	0	0.00
7/25/2005	0	0	0	0.00
7/26/2005	0	0	0	0.00
7/27/2005	0	0	0	0.00
7/28/2005	0	0	0	0.00
7/29/2005	0	0	0	0.00
7/30/2005	0	0	0	0.00
7/31/2005	0	0	0	0.00
8/1/2005	0	0	0	0.00
8/2/2005	0	0	0	0.00
8/3/2005	0	0	0	0.00
8/4/2005	0	0	0	0.00
8/5/2005	0	0	0	0.00
8/6/2005	0	0	0	0.00
8/7/2005	0	0	0	0.00
8/8/2005	0	0	0	0.00
8/9/2005	0	0	0	0.00
8/10/2005	0	0	0	0.00
8/11/2005	0	0	0	0.00
8/12/2005	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
8/13/2005	0	0	0	0.00
8/14/2005	0	0	0	0.00
8/15/2005	0.01	0	0	0.00
8/16/2005	0	0	0	0.00
8/17/2005	0	0	0	0.00
8/18/2005	0	0	0	0.00
8/19/2005	0	0	0	0.00
8/20/2005	0	0	0	0.00
8/21/2005	0	0	0	0.00
8/22/2005	0	0	0	0.00
8/23/2005	0	0	0	0.00
8/24/2005	0	0	0	0.00
8/25/2005	0	0	0	0.00
8/26/2005	0	0	0	0.00
8/27/2005	0	0	0	0.00
8/28/2005	0	0	0	0.00
8/29/2005	0	0	0	0.00
8/30/2005	0	0	0	0.00
8/31/2005	0	0	0	0.00
9/1/2005	0	0	0	0.00
9/2/2005	0	0	0	0.00
9/3/2005	0	0	0	0.00
9/4/2005	0	0	0	0.00
9/5/2005	0	0	0	0.00
9/6/2005	0	0	0	0.00
9/7/2005	0	0	0	0.00
9/8/2005	0	0	0	0.00
9/9/2005	0	0	0	0.00
9/10/2005	0	0	0	0.00
9/11/2005	0	0	0	0.00
9/12/2005	0	0	0	0.00
9/13/2005	0	0	0	0.00
9/14/2005	0	0	0	0.00
9/15/2005	0	0	0	0.00
9/16/2005	0	0	0	0.00
9/17/2005	0	0	0	0.00
9/18/2005	0	0	0	0.00
9/19/2005	0	0	0	0.00
9/20/2005	0	0.12	0.55	0.22
9/21/2005	0	0	0	0.00
9/22/2005	0	0	0	0.00
9/23/2005	0	0	0	0.00
9/24/2005	0	0	0	0.00
9/25/2005	0	0	0	0.00
9/26/2005	0	0	0	0.00
9/27/2005	0	0	0	0.00
9/28/2005	0	0	0	0.00
9/29/2005	0	0	0	0.00
9/30/2005	0	0	0	0.00
10/1/2005	0	0	0	0.00
10/2/2005	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
10/3/2005	0	0	0	0.00
10/4/2005	0	0	0	0.00
10/5/2005	0	0	0	0.00
10/6/2005	0	0	0	0.00
10/7/2005	0	0	0	0.00
10/8/2005	0	0	0	0.00
10/9/2005	0	0	0	0.00
10/10/2005	0	0	0	0.00
10/11/2005	0	0	0	0.00
10/12/2005	0	0	0	0.00
10/13/2005	0	0	0	0.00
10/14/2005	0	0	0	0.00
10/15/2005	0	0	0	0.00
10/16/2005	0	0	0	0.00
10/17/2005	0	0	0	0.00
10/18/2005	0	0	0	0.00
10/19/2005	0	0	0	0.00
10/20/2005	0	0	0	0.00
10/21/2005	0	0	0	0.00
10/22/2005	0	0	0	0.00
10/23/2005	0	0	0	0.00
10/24/2005	0	0	0	0.00
10/25/2005	0	0	0	0.00
10/26/2005	0	0	0	0.00
10/27/2005	0	0	0.02	0.01
10/28/2005	0	0	0	0.00
10/29/2005	0	0	0	0.00
10/30/2005	0	0	0	0.00
10/31/2005	0	0	0	0.00
11/1/2005	0	0	0	0.00
11/2/2005	0	0	0	0.00
11/3/2005	0	0	0	0.00
11/4/2005	0	0	0	0.00
11/5/2005	0	0	0	0.00
11/6/2005	0	0	0	0.00
11/7/2005	0	0	0	0.00
11/8/2005	0	0	0	0.00
11/9/2005	0.08	0	0	0.03
11/10/2005	0.01	0	0.06	0.02
11/11/2005	0	0	0	0.00
11/12/2005	0	0	0	0.00
11/13/2005	0	0	0	0.00
11/14/2005	0	0	--	0.00
11/15/2005	0	0	0	0.00
11/16/2005	0	0	0	0.00
11/17/2005	0	0	0	0.00
11/18/2005	0	0	0	0.00
11/19/2005	0	0	0	0.00
11/20/2005	0	0	0	0.00
11/21/2005	0	0	0	0.00
11/22/2005	0	0	0	0.00

Table G-199
Rainfall Data (Figure 2)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Date	HDR	IDR	SRI	Average
11/23/2005	0	0	0	0.00
11/24/2005	0	0	0	0.00
11/25/2005	0.01	0	0	0.00
11/26/2005	0	0	0	0.00
11/27/2005	0	0	0	0.00
11/28/2005	0.11	0.08	0.11	0.10
11/29/2005	0.17	0.08	0.18	0.14
11/30/2005	0.01	0	0	0.00
12/1/2005	0.19	0.16	0.27	0.21
12/2/2005	0.24	0.28	0.33	0.28
12/3/2005	0	0	0	0.00
12/4/2005	0	0	0	0.00
12/5/2005	0	0	0	0.00
12/6/2005	0	0	0	0.00
12/7/2005	0	0	0.01	0.00
12/8/2005	0.03	0.04	0.18	0.08
12/9/2005	0	0	0	0.00
12/10/2005	0	0	0	0.00
12/11/2005	0	0	0	0.00
12/12/2005	0	0	0	0.00
12/13/2005	0	0	0	0.00
12/14/2005	0	0	0	0.00
12/15/2005	0	0	0	0.00
12/16/2005	0	0	0	0.00
12/17/2005	0.06	0	0.08	0.05
12/18/2005	0.76	0.64	1.78	1.06
12/19/2005	0	0	0.01	0.00
12/20/2005	0	0	0	0.00
12/21/2005	0	0	0	0.00
12/22/2005	0.13	0.12	0.05	0.10
12/23/2005	0	0	0.01	0.00
12/24/2005	0	0	0	0.00
12/25/2005	0.21	0.08	0.17	0.15
12/26/2005	0.2	0.24	0.52	0.32
12/27/2005	0	0	0	0.00
12/28/2005	0.26	0.16	0.24	0.22
12/29/2005	0	0	0	0.00
12/30/2005	0	0	0.07	0.02
12/31/2005	0.84	1.16	2.02	1.34

Data obtained from Department of Water Resources California Data Exchange Center
HDZ - Hernandez
IDR - Idria
SRI - Santa Rita Peak

Table G-200
Comparison of Ambient Concentration and Activities (Figure 3)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Event	Sample Date	Receptor	PCMe (fibers/cc)
2004Nov	03-Nov-04	Ambient (Oak Flat)	4.09E-03
2004Nov	02-Nov-04	Ambient (Oak Flat)	1.49E-03
2004Nov	02-Nov-04	Ambient (Oak Flat)	5.11E-04
2004Nov	03-Nov-04	Ambient (Oak Flat)	3.91E-03
2004Nov	02-Nov-04	Ambient (Section 8)	4.60E-03
2004Nov	02-Nov-04	Ambient (Section 8)	2.17E-03
2004Nov	02-Nov-04	Ambient (Section 8)	5.49E-03
2004Nov	02-Nov-04	Ambient (Staging Area 2)	5.60E-03
2004Nov	03-Nov-04	Ambient (Staging Area 2)	4.95E-04
2004Nov	03-Nov-04	Ambient (Staging Area 2)	2.05E-03
2004Nov	02-Nov-04	Ambient (Staging Area 6)	4.61E-03
2004Nov	02-Nov-04	Ambient (Staging Area 6)	6.14E-03
2004Nov	02-Nov-04	Ambient (Staging Area 6)	5.19E-03
2004Nov	03-Nov-04	Ambient (Staging Area 6)	2.48E-03
2004Nov	03-Nov-04	Ambient (Staging Area 6)	9.92E-04
2004Nov	03-Nov-04	Ambient (Staging Area 6)	1.49E-03
2004Sep	15-Sep-04	Ambient (Oak Flat)	6.49E-03
2004Sep	15-Sep-04	Ambient (Oak Flat)	2.52E-02
2005Feb	11-Feb-05	Ambient (Oak Flat)	4.93E-04
2005Sep	28-Sep-05	Ambient (Oak Flat)	3.30E-03
2005Sep	27-Sep-05	Ambient (Oak Flat)	8.77E-04
2005Sep	29-Sep-05	Ambient (Oak Flat)	3.39E-03
2005Sep	28-Sep-05	Ambient (Section 8)	2.72E-04
2005Sep	29-Sep-05	Ambient (Section 8)	8.74E-04
2005Sep	28-Sep-05	Ambient (Staging Area 2)	2.01E-03
2005Sep	27-Sep-05	Ambient (Staging Area 2)	5.68E-04
2005Sep	29-Sep-05	Ambient (Staging Area 2)	5.38E-03
2005Sep	28-Sep-05	Ambient (Staging Area 6)	1.40E-03
2005Sep	29-Sep-05	Ambient (Staging Area 6)	1.81E-03
2004Nov	03-Nov-04	Motorcyclist	6.48E-02
2004Nov	03-Nov-04	Motorcyclist	2.16E-01
2004Nov	02-Nov-04	Motorcyclist	2.98E-01
2004Nov	03-Nov-04	Motorcyclist	1.99E-02
2004Nov	03-Nov-04	Motorcyclist	1.33E-01
2004Nov	03-Nov-04	Motorcyclist	2.00E-02
2004Nov	02-Nov-04	Motorcyclist	3.50E-02
2004Nov	02-Nov-04	Motorcyclist	1.09E+00
2004Nov	02-Nov-04	Motorcyclist	1.41E-01
2004Nov	02-Nov-04	Motorcyclist	2.33E-01
2004Nov	02-Nov-04	Motorcyclist	7.14E-01
2004Nov	02-Nov-04	Motorcyclist	9.38E-02
2004Nov	02-Nov-04	Motorcyclist	3.84E-01
2004Nov	02-Nov-04	Motorcyclist	4.37E-01
2004Nov	02-Nov-04	Motorcyclist	3.62E-01
2004Nov	02-Nov-04	Motorcyclist	4.03E-02
2004Nov	03-Nov-04	Motorcyclist	5.98E-02
2004Nov	02-Nov-04	Motorcyclist	4.27E-01
2004Nov	02-Nov-04	Motorcyclist	1.79E-01
2004Nov	02-Nov-04	Motorcyclist	3.31E-01

Table G-200
Comparison of Ambient Concentration and Activities (Figure 3)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Event	Sample Date	Receptor	PCMe (fibers/cc)
2004Nov	02-Nov-04	Motorcyclist	7.50E-01
2004Nov	03-Nov-04	Motorcyclist	2.72E-01
2004Nov	02-Nov-04	Motorcyclist	4.38E-01
2004Nov	02-Nov-04	Motorcyclist	7.60E-01
2004Nov	03-Nov-04	Motorcyclist	2.95E-01
2004Nov	02-Nov-04	Motorcyclist	2.03E-01
2004Sep	15-Sep-04	Motorcyclist	4.43E-02
2004Sep	15-Sep-04	Motorcyclist	6.59E-01
2004Sep	15-Sep-04	Motorcyclist	9.55E-01
2005Feb	11-Feb-05	Motorcyclist	1.00E-02
2005Feb	11-Feb-05	Motorcyclist	1.46E-01
2005Feb	11-Feb-05	Motorcyclist	5.98E-02
2005Feb	11-Feb-05	Motorcyclist	9.97E-03
2005Feb	11-Feb-05	Motorcyclist	1.99E-02
2005Feb	11-Feb-05	Motorcyclist	1.99E-02
2005Sep	29-Sep-05	Motorcyclist	3.93E-01
2005Sep	28-Sep-05	Motorcyclist	7.07E-01
2005Sep	28-Sep-05	Motorcyclist	1.23E+00
2005Sep	28-Sep-05	Motorcyclist	1.28E+00
2005Sep	28-Sep-05	Motorcyclist	4.56E-01
2005Sep	28-Sep-05	Motorcyclist	3.06E-01
2005Sep	27-Sep-05	Motorcyclist	5.14E-01
2005Sep	27-Sep-05	Motorcyclist	5.06E-01
2005Sep	27-Sep-05	Motorcyclist	6.51E-01
2005Sep	27-Sep-05	Motorcyclist	3.72E-01
2005Sep	27-Sep-05	Motorcyclist	3.51E-01
2005Sep	27-Sep-05	Motorcyclist	5.89E-01
2005Sep	28-Sep-05	Motorcyclist	4.50E-02
2005Sep	27-Sep-05	Motorcyclist	1.25E-01
2005Sep	28-Sep-05	Motorcyclist	2.00E-02
2005Sep	28-Sep-05	Motorcyclist	4.51E-01
2005Sep	27-Sep-05	Motorcyclist	3.07E-01
2005Sep	29-Sep-05	Motorcyclist	8.28E-01
2005Sep	27-Sep-05	Motorcyclist	5.43E-02
2005Sep	29-Sep-05	Motorcyclist	4.81E-02
2005Sep	27-Sep-05	Motorcyclist	9.90E-03
2005Sep	29-Sep-05	Motorcyclist	2.47E-02
2004Nov	02-Nov-04	ATV Driver/Rider	4.59E-02
2004Nov	02-Nov-04	ATV Driver/Rider	1.45E-01
2004Nov	02-Nov-04	ATV Driver/Rider	2.14E-02
2004Nov	02-Nov-04	ATV Driver/Rider	1.25E-01
2004Nov	02-Nov-04	ATV Driver/Rider	5.63E-01
2004Nov	03-Nov-04	ATV Driver/Rider	1.24E-01
2004Nov	03-Nov-04	ATV Driver/Rider	1.28E+00
2004Nov	03-Nov-04	ATV Driver/Rider	5.73E-01
2004Nov	03-Nov-04	ATV Driver/Rider	4.41E-02
2004Nov	03-Nov-04	ATV Driver/Rider	9.79E-03
2004Nov	02-Nov-04	ATV Driver/Rider	7.50E-01
2004Nov	02-Nov-04	ATV Driver/Rider	2.04E+00

Table G-200
Comparison of Ambient Concentration and Activities (Figure 3)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Event	Sample Date	Receptor	PCMe (fibers/cc)
2004Nov	03-Nov-04	ATV Driver/Rider	6.38E-01
2004Nov	02-Nov-04	ATV Driver/Rider	1.27E+00
2004Nov	02-Nov-04	ATV Driver/Rider	7.98E-01
2004Nov	02-Nov-04	ATV Driver/Rider	7.24E-01
2005Feb	20-Feb-05	ATV Driver/Rider	4.83E-02
2005Feb	20-Feb-05	ATV Driver/Rider	4.37E-02
2005Feb	20-Feb-05	ATV Driver/Rider	3.38E-02
2005Feb	11-Feb-05	ATV Driver/Rider	1.48E-01
2005Feb	11-Feb-05	ATV Driver/Rider	9.60E-03
2005Feb	11-Feb-05	ATV Driver/Rider	3.00E-02
2005Feb	11-Feb-05	ATV Driver/Rider	9.14E-03
2005Sep	27-Sep-05	ATV Driver/Rider	1.96E-01
2005Sep	27-Sep-05	ATV Driver/Rider	3.88E-01
2005Sep	28-Sep-05	ATV Driver/Rider	3.85E-01
2005Sep	27-Sep-05	ATV Driver/Rider	5.75E-01
2005Sep	28-Sep-05	ATV Driver/Rider	4.39E-03
2005Sep	28-Sep-05	ATV Driver/Rider	2.48E-01
2005Sep	28-Sep-05	ATV Driver/Rider	3.33E-01
2005Sep	28-Sep-05	ATV Driver/Rider	6.92E-01
2005Sep	28-Sep-05	ATV Driver/Rider	4.32E-01
2005Sep	27-Sep-05	ATV Driver/Rider	1.04E-01
2005Sep	27-Sep-05	ATV Driver/Rider	5.43E-02
2005Sep	29-Sep-05	ATV Driver/Rider	3.22E-01
2004Nov	03-Nov-04	SUV Driver/Rider	4.64E-02
2004Nov	02-Nov-04	SUV Driver/Rider	1.18E-01
2004Nov	03-Nov-04	SUV Driver/Rider	5.53E-01
2004Nov	03-Nov-04	SUV Driver/Rider	8.51E-02
2004Nov	03-Nov-04	SUV Driver/Rider	2.15E-02
2004Nov	03-Nov-04	SUV Driver/Rider	2.05E-01
2004Nov	03-Nov-04	SUV Driver/Rider	4.73E-01
2004Nov	02-Nov-04	SUV Driver/Rider	1.96E-01
2004Nov	02-Nov-04	SUV Driver/Rider	4.22E-01
2004Nov	02-Nov-04	SUV Driver/Rider	9.38E-01
2004Nov	02-Nov-04	SUV Driver/Rider	6.72E-01
2004Nov	03-Nov-04	SUV Driver/Rider	7.94E-01
2004Nov	02-Nov-04	SUV Driver/Rider	1.97E-01
2004Nov	02-Nov-04	SUV Driver/Rider	1.41E-01
2004Nov	03-Nov-04	SUV Driver/Rider	7.05E-02
2004Sep	15-Sep-04	SUV Driver/Rider	2.29E-01
2004Sep	15-Sep-04	SUV Driver/Rider	1.00E-01
2004Sep	15-Sep-04	SUV Driver/Rider	5.23E-01
2005Feb	11-Feb-05	SUV Driver/Rider	5.00E-03
2005Feb	20-Feb-05	SUV Driver/Rider	9.88E-03
2005Sep	28-Sep-05	SUV Driver/Rider	4.57E-02
2005Sep	28-Sep-05	SUV Driver/Rider	4.64E-02
2005Sep	28-Sep-05	SUV Driver/Rider	1.08E-01
2005Sep	28-Sep-05	SUV Driver/Rider	1.37E-01
2005Sep	28-Sep-05	SUV Driver/Rider	9.79E-01
2005Sep	29-Sep-05	SUV Driver/Rider	1.69E-01

Table G-200
Comparison of Ambient Concentration and Activities (Figure 3)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Event	Sample Date	Receptor	PCMe (fibers/cc)
2005Sep	28-Sep-05	SUV Driver/Rider	4.68E-02
2005Sep	28-Sep-05	SUV Driver/Rider	2.86E-01
2005Sep	29-Sep-05	SUV Driver/Rider	1.51E-01
2005Sep	29-Sep-05	SUV Driver/Rider	6.97E-02
2005Sep	29-Sep-05	SUV Driver/Rider	4.80E-01
2005Sep	29-Sep-05	SUV Driver/Rider	5.65E-02
2005Sep	29-Sep-05	SUV Driver/Rider	1.13E-01
2005Sep	29-Sep-05	SUV Driver/Rider	1.40E-01
2005Sep	29-Sep-05	SUV Driver/Rider	4.16E-01
2005Sep	28-Sep-05	SUV Driver/Rider	9.82E-02
2005Sep	27-Sep-05	SUV Driver/Rider	3.97E-02
2005Sep	27-Sep-05	SUV Driver/Rider	4.96E-02
2005Sep	27-Sep-05	SUV Driver/Rider	7.77E-01
2005Sep	27-Sep-05	SUV Driver/Rider	2.56E-01
2005Sep	28-Sep-05	SUV Driver/Rider	3.27E-02
2005Sep	27-Sep-05	SUV Driver/Rider	1.36E-01
2005Sep	27-Sep-05	SUV Driver/Rider	2.23E-01
2005Sep	27-Sep-05	SUV Driver/Rider	7.21E-03
2005Sep	27-Sep-05	SUV Driver/Rider	6.47E-02
2005Sep	28-Sep-05	SUV Driver/Rider	1.90E-02
2005Sep	27-Sep-05	SUV Driver/Rider	1.41E-02
2005Sep	28-Sep-05	SUV Driver/Rider	1.59E-01
2005Sep	27-Sep-05	SUV Driver/Rider	5.95E-02
2005Sep	27-Sep-05	SUV Driver/Rider	1.48E-01
2005Sep	27-Sep-05	SUV Driver/Rider	9.43E-02
2004Nov	02-Nov-04	Hiker	1.49E-02
2004Nov	02-Nov-04	Hiker	3.05E-02
2004Nov	03-Nov-04	Hiker	9.83E-03
2004Nov	02-Nov-04	Hiker	9.97E-03
2004Nov	03-Nov-04	Hiker	1.99E-02
2004Nov	03-Nov-04	Hiker	4.99E-03
2005Feb	11-Feb-05	Hiker	4.58E-03
2005Feb	11-Feb-05	Hiker	8.69E-03
2005Feb	11-Feb-05	Hiker	1.55E-02
2005Sep	27-Sep-05	Hiker	4.89E-03
2005Sep	28-Sep-05	Hiker	2.52E-02
2005Sep	27-Sep-05	Hiker	1.38E-02
2005Sep	28-Sep-05	Hiker	1.42E-02
2005Sep	28-Sep-05	Hiker	2.81E-02
2005Sep	28-Sep-05	Hiker	7.49E-02
2005Sep	28-Sep-05	Hiker	6.52E-02
2005Sep	28-Sep-05	Hiker	5.10E-02
2005Sep	27-Sep-05	Hiker	3.18E-02
2005Sep	27-Sep-05	Hiker	2.85E-02
2005Sep	27-Sep-05	Hiker	1.85E-02
2005Sep	29-Sep-05	Hiker	2.92E-02
2005Sep	29-Sep-05	Hiker	4.90E-03
2005Sep	29-Sep-05	Hiker	4.17E-03
2004Nov	02-Nov-04	Camper	5.02E-03

Table G-200
Comparison of Ambient Concentration and Activities (Figure 3)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Event	Sample Date	Receptor	PCMe (fibers/cc)
2004Nov	02-Nov-04	Camper	4.35E-02
2004Nov	02-Nov-04	Camper	1.48E-02
2004Nov	02-Nov-04	Camper	5.34E-02
2005Sep	29-Sep-05	Camper	3.00E-02
2005Sep	29-Sep-05	Camper	3.19E-02
2005Sep	29-Sep-05	Camper	4.11E-02
2005Sep	29-Sep-05	Camper	4.29E-02
2005Sep	29-Sep-05	Camper	1.92E-02
2005Sep	29-Sep-05	Camper	9.25E-03
2005Sep	28-Sep-05	Camper	1.79E-02
2005Sep	28-Sep-05	Camper	2.84E-01
2005Sep	28-Sep-05	Camper	6.50E-01
2005Sep	28-Sep-05	Camper	1.32E-02
2005Sep	28-Sep-05	Camper	4.12E-02
2005Sep	28-Sep-05	Camper	3.91E-02
2005Sep	28-Sep-05	Camper	4.62E-03
2005Sep	28-Sep-05	Camper	4.48E-03
2005Sep	28-Sep-05	Camper	1.70E-02
2005Sep	28-Sep-05	Camper	8.49E-03
2005Sep	28-Sep-05	Camper	8.95E-03
2004Nov	03-Nov-04	Powerspray Wash	4.12E-01
2004Nov	03-Nov-04	Powerspray Wash	2.99E-02
2004Nov	02-Nov-04	Powerspray Wash	9.81E-03
2005Sep	28-Sep-05	Powerspray Wash	2.02E-01
2005Sep	28-Sep-05	Powerspray Wash	5.16E-02
2004Nov	03-Nov-04	Hose Wash	1.19E-02
2004Nov	03-Nov-04	Hose Wash	5.30E-01
2004Nov	02-Nov-04	Hose Wash	2.00E-02
2005Sep	28-Sep-05	Hose Wash	2.85E-02
2005Sep	28-Sep-05	Hose Wash	1.71E-01
2004Nov	03-Nov-04	HEPA Vacuum	7.77E-03
2004Nov	02-Nov-04	HEPA Vacuum	1.45E-01
2005Sep	28-Sep-05	HEPA Vacuum	2.81E-02
2005Sep	27-Sep-05	HEPA Vacuum	2.96E-02
2005Sep	28-Sep-05	HEPA Vacuum	7.63E-02
2004Nov	03-Nov-04	Regular Vacuum	5.99E-02
2004Nov	02-Nov-04	Regular Vacuum	1.08E-01
2005Sep	27-Sep-05	Regular Vacuum	1.41E-02
2005Sep	28-Sep-05	Regular Vacuum	1.88E-02
2005Sep	28-Sep-05	Fence Builder	2.37E-02
2005Sep	28-Sep-05	Fence Builder	2.89E-02
2005Sep	29-Sep-05	Fence Builder	1.24E-02
2005Sep	29-Sep-05	Fence Builder	3.02E-02
2005Sep	27-Sep-05	Fence Builder	2.65E-01
2005Sep	29-Sep-05	Fence Builder	4.52E-02
2005Sep	27-Sep-05	Fence Builder	2.81E-02
2005Sep	28-Sep-05	Raking	4.53E-03
2005Sep	28-Sep-05	Raking	4.58E-03

Table G-201
Comparison of Different Weather Conditions for Adult Receptors (Figure 4)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Weather Condition	Event	Position	PCMe (fibers/cc)
15-Sep-04	Motorcyclist	Dry	2004Sep	Lead	4.43E-02
15-Sep-04	Motorcyclist	Dry	2004Sep	First Trailing	6.59E-01
15-Sep-04	Motorcyclist	Dry	2004Sep	Second Trailing	9.55E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	Lead	9.90E-03
29-Sep-05	Motorcyclist	Dry	2005Sep	Lead	2.47E-02
28-Sep-05	Motorcyclist	Dry	2005Sep	Lead	2.00E-02
28-Sep-05	Motorcyclist	Dry	2005Sep	First Trailing	3.06E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	First Trailing	3.07E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	First Trailing	5.14E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	3.51E-01
28-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	4.51E-01
28-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	1.28E+00
29-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	8.28E-01
03-Nov-04	Motorcyclist	Moist	2004Nov	Lead	1.99E-02
02-Nov-04	Motorcyclist	Moist	2004Nov	Lead	4.03E-02
02-Nov-04	Motorcyclist	Moist	2004Nov	Lead	9.38E-02
02-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	2.03E-01
03-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	2.72E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	4.37E-01
03-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	2.95E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	3.31E-01
03-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	1.33E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	2.33E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	1.41E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	4.27E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	4.38E-01
11-Feb-05	Motorcyclist	Wet	2005Feb	Lead	1.00E-02
11-Feb-05	Motorcyclist	Wet	2005Feb	First Trailing	1.99E-02
11-Feb-05	Motorcyclist	Wet	2005Feb	Second Trailing	5.98E-02
27-Sep-05	ATV Driver/Rider	Dry	2005Sep	Lead	5.43E-02
28-Sep-05	ATV Driver/Rider	Dry	2005Sep	Lead	4.39E-03
27-Sep-05	ATV Driver/Rider	Dry	2005Sep	Lead	1.96E-01
27-Sep-05	ATV Driver/Rider	Dry	2005Sep	Second Trailing	3.88E-01
28-Sep-05	ATV Driver/Rider	Dry	2005Sep	Second Trailing	4.32E-01
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	Lead	4.59E-02
03-Nov-04	ATV Driver/Rider	Moist	2004Nov	Lead	9.79E-03
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	Lead	2.14E-02
03-Nov-04	ATV Driver/Rider	Moist	2004Nov	First Trailing	5.73E-01
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	First Trailing	7.98E-01
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	Second Trailing	2.04E+00
03-Nov-04	ATV Driver/Rider	Moist	2004Nov	Second Trailing	1.24E-01
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	Second Trailing	7.24E-01
20-Feb-05	ATV Driver/Rider	Wet	2005Feb	Lead	4.83E-02
20-Feb-05	ATV Driver/Rider	Wet	2005Feb	Lead	3.38E-02
11-Feb-05	ATV Driver/Rider	Wet	2005Feb	Lead	1.48E-01
11-Feb-05	ATV Driver/Rider	Wet	2005Feb	First Trailing	3.00E-02
20-Feb-05	ATV Driver/Rider	Wet	2005Feb	First Trailing	4.37E-02
15-Sep-04	SUV Driver/Rider	Dry	2004Sep	Lead	1.00E-01
15-Sep-04	SUV Driver/Rider	Dry	2004Sep	First Trailing	5.23E-01

Table G-201
Comparison of Different Weather Conditions for Adult Receptors (Figure 4)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Weather Condition	Event	Position	PCMe (fibers/cc)
15-Sep-04	SUV Driver/Rider	Dry	2004Sep	First Trailing	2.29E-01
29-Sep-05	SUV Driver/Rider	Dry	2005Sep	Lead	1.69E-01
27-Sep-05	SUV Driver/Rider	Dry	2005Sep	Lead	1.41E-02
28-Sep-05	SUV Driver/Rider	Dry	2005Sep	Lead	1.37E-01
27-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	3.97E-02
29-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	4.80E-01
29-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	1.13E-01
28-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	4.64E-02
27-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	9.43E-02
02-Nov-04	SUV Driver/Rider	Moist	2004Nov	Lead	1.96E-01
03-Nov-04	SUV Driver/Rider	Moist	2004Nov	Lead	4.64E-02
03-Nov-04	SUV Driver/Rider	Moist	2004Nov	Lead	8.51E-02
02-Nov-04	SUV Driver/Rider	Moist	2004Nov	Lead	1.18E-01
02-Nov-04	SUV Driver/Rider	Moist	2004Nov	First Trailing	6.72E-01
02-Nov-04	SUV Driver/Rider	Moist	2004Nov	First Trailing	1.41E-01
03-Nov-04	SUV Driver/Rider	Moist	2004Nov	First Trailing	2.05E-01
03-Nov-04	SUV Driver/Rider	Moist	2004Nov	First Trailing	5.53E-01
20-Feb-05	SUV Driver/Rider	Wet	2005Feb	Lead	9.88E-03
28-Sep-05	Hiker	Dry	2005Sep	Lead	5.10E-02
27-Sep-05	Hiker	Dry	2005Sep	Lead	4.89E-03
28-Sep-05	Hiker	Dry	2005Sep	First Trailing	2.52E-02
28-Sep-05	Hiker	Dry	2005Sep	First Trailing	2.81E-02
27-Sep-05	Hiker	Dry	2005Sep	First Trailing	2.85E-02
29-Sep-05	Hiker	Dry	2005Sep	First Trailing	4.17E-03
03-Nov-04	Hiker	Moist	2004Nov	Lead	4.99E-03
02-Nov-04	Hiker	Moist	2004Nov	Lead	9.97E-03
03-Nov-04	Hiker	Moist	2004Nov	First Trailing	9.83E-03
02-Nov-04	Hiker	Moist	2004Nov	First Trailing	3.05E-02
11-Feb-05	Hiker	Wet	2005Feb	First Trailing	4.58E-03

Table G-202
Comparison of Different Weather Conditions for Child Receptors (Figure 5)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Weather Condition	Event	Position	PCMe (fibers/cc)
03-Nov-04	Motorcyclist	Moist	2004Nov	Lead	5.98E-02
02-Nov-04	Motorcyclist	Moist	2004Nov	Lead	3.50E-02
02-Nov-04	Motorcyclist	Moist	2004Nov	Lead	1.79E-01
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	Lead	1.45E-01
03-Nov-04	ATV Driver/Rider	Moist	2004Nov	Lead	4.41E-02
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	Lead	1.25E-01
02-Nov-04	SUV Driver/Rider	Moist	2004Nov	Lead	1.97E-01
03-Nov-04	SUV Driver/Rider	Moist	2004Nov	Lead	2.15E-02
03-Nov-04	SUV Driver/Rider	Moist	2004Nov	Lead	7.05E-02
02-Nov-04	SUV Driver/Rider	Moist	2004Nov	Lead	4.22E-01
02-Nov-04	Hiker	Moist	2004Nov	Lead	1.49E-02
02-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	7.14E-01
03-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	2.00E-02
02-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	7.50E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	First Trailing	3.84E-01
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	First Trailing	1.27E+00
03-Nov-04	ATV Driver/Rider	Moist	2004Nov	First Trailing	1.28E+00
03-Nov-04	SUV Driver/Rider	Moist	2004Nov	First Trailing	4.73E-01
03-Nov-04	SUV Driver/Rider	Moist	2004Nov	First Trailing	7.94E-01
02-Nov-04	SUV Driver/Rider	Moist	2004Nov	First Trailing	9.38E-01
03-Nov-04	Hiker	Moist	2004Nov	First Trailing	1.99E-02
03-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	6.48E-02
02-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	1.09E+00
03-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	2.16E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	2.98E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	7.60E-01
02-Nov-04	Motorcyclist	Moist	2004Nov	Second Trailing	3.62E-01
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	Second Trailing	5.63E-01
03-Nov-04	ATV Driver/Rider	Moist	2004Nov	Second Trailing	6.38E-01
02-Nov-04	ATV Driver/Rider	Moist	2004Nov	Second Trailing	7.50E-01
11-Feb-05	Motorcyclist	Wet	2005Feb	Lead	1.99E-02
11-Feb-05	ATV Driver/Rider	Wet	2005Feb	Lead	9.60E-03
11-Feb-05	Hiker	Wet	2005Feb	Lead	1.55E-02
11-Feb-05	Motorcyclist	Wet	2005Feb	First Trailing	9.97E-03
11-Feb-05	ATV Driver/Rider	Wet	2005Feb	First Trailing	9.14E-03
11-Feb-05	SUV Driver/Rider	Wet	2005Feb	First Trailing	5.00E-03
11-Feb-05	Hiker	Wet	2005Feb	First Trailing	8.69E-03
11-Feb-05	Motorcyclist	Wet	2005Feb	Second Trailing	1.46E-01
29-Sep-05	Motorcyclist	Dry	2005Sep	Lead	4.81E-02
27-Sep-05	Motorcyclist	Dry	2005Sep	Lead	1.25E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	Lead	5.43E-02
28-Sep-05	Motorcyclist	Dry	2005Sep	Lead	4.50E-02
27-Sep-05	ATV Driver/Rider	Dry	2005Sep	Lead	1.04E-01
28-Sep-05	ATV Driver/Rider	Dry	2005Sep	Lead	2.48E-01
28-Sep-05	ATV Driver/Rider	Dry	2005Sep	Lead	3.33E-01
29-Sep-05	ATV Driver/Rider	Dry	2005Sep	Lead	3.22E-01
27-Sep-05	SUV Driver/Rider	Dry	2005Sep	Lead	7.21E-03
29-Sep-05	SUV Driver/Rider	Dry	2005Sep	Lead	1.40E-01
28-Sep-05	SUV Driver/Rider	Dry	2005Sep	Lead	1.08E-01

Table G-202
Comparison of Different Weather Conditions for Child Receptors (Figure 5)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Weather Condition	Event	Position	PCMe (fibers/cc)
28-Sep-05	Hiker	Dry	2005Sep	Lead	6.52E-02
29-Sep-05	Hiker	Dry	2005Sep	Lead	4.90E-03
28-Sep-05	Hiker	Dry	2005Sep	Lead	1.42E-02
27-Sep-05	Hiker	Dry	2005Sep	Lead	1.85E-02
28-Sep-05	Motorcyclist	Dry	2005Sep	First Trailing	4.56E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	First Trailing	5.06E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	First Trailing	5.89E-01
28-Sep-05	ATV Driver/Rider	Dry	2005Sep	First Trailing	6.92E-01
27-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	6.47E-02
28-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	4.68E-02
29-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	4.16E-01
28-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	4.57E-02
27-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	2.23E-01
29-Sep-05	SUV Driver/Rider	Dry	2005Sep	First Trailing	1.51E-01
29-Sep-05	Hiker	Dry	2005Sep	First Trailing	2.92E-02
27-Sep-05	Hiker	Dry	2005Sep	First Trailing	3.18E-02
27-Sep-05	Hiker	Dry	2005Sep	First Trailing	1.38E-02
28-Sep-05	Hiker	Dry	2005Sep	First Trailing	7.49E-02
29-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	3.93E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	3.72E-01
27-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	6.51E-01
28-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	7.07E-01
28-Sep-05	Motorcyclist	Dry	2005Sep	Second Trailing	1.23E+00
27-Sep-05	ATV Driver/Rider	Dry	2005Sep	Second Trailing	5.75E-01
28-Sep-05	ATV Driver/Rider	Dry	2005Sep	Second Trailing	3.85E-01

Table G-203
Comparison of Different Riding Positions for Adults (Figure 6)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Position	PCMe (fibers/cc)
29-Sep-05	Ambient (Staging Area 2)	Lead	5.38E-03
03-Nov-04	Ambient (Staging Area 2)	Lead	2.05E-03
28-Sep-05	Ambient (Staging Area 2)	Lead	2.01E-03
27-Sep-05	Ambient (Staging Area 2)	Lead	5.68E-04
02-Nov-04	Ambient (Staging Area 2)	Lead	5.60E-03
03-Nov-04	Ambient (Staging Area 2)	Lead	4.95E-04
29-Sep-05	Ambient (Staging Area 6)	Lead	1.81E-03
28-Sep-05	Ambient (Staging Area 6)	Lead	1.40E-03
03-Nov-04	Ambient (Staging Area 6)	Lead	9.92E-04
03-Nov-04	Ambient (Staging Area 6)	Lead	1.49E-03
02-Nov-04	Ambient (Staging Area 6)	Lead	5.19E-03
02-Nov-04	Ambient (Staging Area 6)	Lead	6.14E-03
03-Nov-04	Ambient (Staging Area 6)	Lead	2.48E-03
02-Nov-04	Ambient (Staging Area 6)	Lead	4.61E-03
11-Feb-05	Ambient (Oak Flat)	Lead	4.93E-04
03-Nov-04	Ambient (Oak Flat)	Lead	3.91E-03
02-Nov-04	Ambient (Oak Flat)	Lead	1.49E-03
03-Nov-04	Ambient (Oak Flat)	Lead	4.09E-03
02-Nov-04	Ambient (Oak Flat)	Lead	5.11E-04
28-Sep-05	Ambient (Oak Flat)	Lead	3.30E-03
15-Sep-04	Ambient (Oak Flat)	Lead	6.49E-03
15-Sep-04	Ambient (Oak Flat)	Lead	2.52E-02
29-Sep-05	Ambient (Oak Flat)	Lead	3.39E-03
27-Sep-05	Ambient (Oak Flat)	Lead	8.77E-04
29-Sep-05	Ambient (Section 8)	Lead	8.74E-04
02-Nov-04	Ambient (Section 8)	Lead	4.60E-03
02-Nov-04	Ambient (Section 8)	Lead	2.17E-03
02-Nov-04	Ambient (Section 8)	Lead	5.49E-03
28-Sep-05	Ambient (Section 8)	Lead	2.72E-04
27-Sep-05	Motorcyclist	Lead	9.90E-03
03-Nov-04	Motorcyclist	Lead	1.99E-02
28-Sep-05	Motorcyclist	Lead	2.00E-02
29-Sep-05	Motorcyclist	Lead	2.47E-02
11-Feb-05	Motorcyclist	Lead	1.00E-02
15-Sep-04	Motorcyclist	Lead	4.43E-02
02-Nov-04	Motorcyclist	Lead	4.03E-02
02-Nov-04	Motorcyclist	Lead	9.38E-02
15-Sep-04	Motorcyclist	First Trailing	6.59E-01
02-Nov-04	Motorcyclist	First Trailing	2.03E-01
03-Nov-04	Motorcyclist	First Trailing	2.72E-01
11-Feb-05	Motorcyclist	First Trailing	1.99E-02
27-Sep-05	Motorcyclist	First Trailing	3.07E-01
03-Nov-04	Motorcyclist	First Trailing	2.95E-01
02-Nov-04	Motorcyclist	First Trailing	3.31E-01
02-Nov-04	Motorcyclist	First Trailing	4.37E-01
27-Sep-05	Motorcyclist	First Trailing	5.14E-01
28-Sep-05	Motorcyclist	First Trailing	3.06E-01
02-Nov-04	Motorcyclist	Second Trailing	4.38E-01
02-Nov-04	Motorcyclist	Second Trailing	4.27E-01

Table G-203
Comparison of Different Riding Positions for Adults (Figure 6)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Position	PCMe (fibers/cc)
11-Feb-05	Motorcyclist	Second Trailing	5.98E-02
02-Nov-04	Motorcyclist	Second Trailing	1.41E-01
15-Sep-04	Motorcyclist	Second Trailing	9.55E-01
27-Sep-05	Motorcyclist	Second Trailing	3.51E-01
02-Nov-04	Motorcyclist	Second Trailing	2.33E-01
28-Sep-05	Motorcyclist	Second Trailing	1.28E+00
28-Sep-05	Motorcyclist	Second Trailing	4.51E-01
03-Nov-04	Motorcyclist	Second Trailing	1.33E-01
29-Sep-05	Motorcyclist	Second Trailing	8.28E-01
02-Nov-04	ATV Driver/Rider	Lead	4.59E-02
27-Sep-05	ATV Driver/Rider	Lead	1.96E-01
11-Feb-05	ATV Driver/Rider	Lead	1.48E-01
02-Nov-04	ATV Driver/Rider	Lead	2.14E-02
03-Nov-04	ATV Driver/Rider	Lead	9.79E-03
20-Feb-05	ATV Driver/Rider	Lead	3.38E-02
28-Sep-05	ATV Driver/Rider	Lead	4.39E-03
27-Sep-05	ATV Driver/Rider	Lead	5.43E-02
20-Feb-05	ATV Driver/Rider	Lead	4.83E-02
02-Nov-04	ATV Driver/Rider	First Trailing	7.98E-01
20-Feb-05	ATV Driver/Rider	First Trailing	4.37E-02
03-Nov-04	ATV Driver/Rider	First Trailing	5.73E-01
11-Feb-05	ATV Driver/Rider	First Trailing	3.00E-02
02-Nov-04	ATV Driver/Rider	Second Trailing	7.24E-01
02-Nov-04	ATV Driver/Rider	Second Trailing	2.04E+00
27-Sep-05	ATV Driver/Rider	Second Trailing	3.88E-01
28-Sep-05	ATV Driver/Rider	Second Trailing	4.32E-01
03-Nov-04	ATV Driver/Rider	Second Trailing	1.24E-01
28-Sep-05	SUV Driver/Rider	Lead	1.37E-01
20-Feb-05	SUV Driver/Rider	Lead	9.88E-03
27-Sep-05	SUV Driver/Rider	Lead	1.41E-02
03-Nov-04	SUV Driver/Rider	Lead	4.64E-02
03-Nov-04	SUV Driver/Rider	Lead	8.51E-02
02-Nov-04	SUV Driver/Rider	Lead	1.18E-01
29-Sep-05	SUV Driver/Rider	Lead	1.69E-01
02-Nov-04	SUV Driver/Rider	Lead	1.96E-01
15-Sep-04	SUV Driver/Rider	Lead	1.00E-01
15-Sep-04	SUV Driver/Rider	First Trailing	2.29E-01
02-Nov-04	SUV Driver/Rider	First Trailing	1.41E-01
15-Sep-04	SUV Driver/Rider	First Trailing	5.23E-01
27-Sep-05	SUV Driver/Rider	First Trailing	3.97E-02
29-Sep-05	SUV Driver/Rider	First Trailing	4.80E-01
28-Sep-05	SUV Driver/Rider	First Trailing	4.64E-02
03-Nov-04	SUV Driver/Rider	First Trailing	5.53E-01
03-Nov-04	SUV Driver/Rider	First Trailing	2.05E-01
02-Nov-04	SUV Driver/Rider	First Trailing	6.72E-01
27-Sep-05	SUV Driver/Rider	First Trailing	9.43E-02
29-Sep-05	SUV Driver/Rider	First Trailing	1.13E-01
02-Nov-04	Hiker	Lead	9.97E-03
28-Sep-05	Hiker	Lead	5.10E-02

Table G-203
Comparison of Different Riding Positions for Adults (Figure 6)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Position	PCMe (fibers/cc)
03-Nov-04	Hiker	Lead	4.99E-03
27-Sep-05	Hiker	Lead	4.89E-03
28-Sep-05	Hiker	First Trailing	2.81E-02
02-Nov-04	Hiker	First Trailing	3.05E-02
27-Sep-05	Hiker	First Trailing	2.85E-02
11-Feb-05	Hiker	First Trailing	4.58E-03
03-Nov-04	Hiker	First Trailing	9.83E-03
28-Sep-05	Hiker	First Trailing	2.52E-02
29-Sep-05	Hiker	First Trailing	4.17E-03

Table G-204
Comparison of Different Riding Positions for Children (Figure 7)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Position	PCMe (fibers/cc)
29-Sep-05	Ambient (Staging Area 2)	Lead	5.38E-03
03-Nov-04	Ambient (Staging Area 2)	Lead	2.05E-03
28-Sep-05	Ambient (Staging Area 2)	Lead	2.01E-03
27-Sep-05	Ambient (Staging Area 2)	Lead	5.68E-04
02-Nov-04	Ambient (Staging Area 2)	Lead	5.60E-03
03-Nov-04	Ambient (Staging Area 2)	Lead	4.95E-04
29-Sep-05	Ambient (Staging Area 6)	Lead	1.81E-03
28-Sep-05	Ambient (Staging Area 6)	Lead	1.40E-03
03-Nov-04	Ambient (Staging Area 6)	Lead	9.92E-04
03-Nov-04	Ambient (Staging Area 6)	Lead	1.49E-03
02-Nov-04	Ambient (Staging Area 6)	Lead	5.19E-03
02-Nov-04	Ambient (Staging Area 6)	Lead	6.14E-03
03-Nov-04	Ambient (Staging Area 6)	Lead	2.48E-03
02-Nov-04	Ambient (Staging Area 6)	Lead	4.61E-03
11-Feb-05	Ambient (Oak Flat)	Lead	4.93E-04
03-Nov-04	Ambient (Oak Flat)	Lead	3.91E-03
02-Nov-04	Ambient (Oak Flat)	Lead	1.49E-03
03-Nov-04	Ambient (Oak Flat)	Lead	4.09E-03
02-Nov-04	Ambient (Oak Flat)	Lead	5.11E-04
28-Sep-05	Ambient (Oak Flat)	Lead	3.30E-03
15-Sep-04	Ambient (Oak Flat)	Lead	6.49E-03
15-Sep-04	Ambient (Oak Flat)	Lead	2.52E-02
29-Sep-05	Ambient (Oak Flat)	Lead	3.39E-03
27-Sep-05	Ambient (Oak Flat)	Lead	8.77E-04
29-Sep-05	Ambient (Section 8)	Lead	8.74E-04
02-Nov-04	Ambient (Section 8)	Lead	4.60E-03
02-Nov-04	Ambient (Section 8)	Lead	2.17E-03
02-Nov-04	Ambient (Section 8)	Lead	5.49E-03
28-Sep-05	Ambient (Section 8)	Lead	2.72E-04
27-Sep-05	Motorcyclist	Lead	1.25E-01
29-Sep-05	Motorcyclist	Lead	4.81E-02
03-Nov-04	Motorcyclist	Lead	5.98E-02
02-Nov-04	Motorcyclist	Lead	3.50E-02
27-Sep-05	Motorcyclist	Lead	5.43E-02
11-Feb-05	Motorcyclist	Lead	1.99E-02
02-Nov-04	Motorcyclist	Lead	1.79E-01
28-Sep-05	Motorcyclist	Lead	4.50E-02
27-Sep-05	Motorcyclist	First Trailing	5.06E-01
27-Sep-05	Motorcyclist	First Trailing	5.89E-01
02-Nov-04	Motorcyclist	First Trailing	7.50E-01
03-Nov-04	Motorcyclist	First Trailing	2.00E-02
02-Nov-04	Motorcyclist	First Trailing	7.14E-01
02-Nov-04	Motorcyclist	First Trailing	3.84E-01
11-Feb-05	Motorcyclist	First Trailing	9.97E-03
28-Sep-05	Motorcyclist	First Trailing	4.56E-01
02-Nov-04	Motorcyclist	Second Trailing	1.09E+00
11-Feb-05	Motorcyclist	Second Trailing	1.46E-01
02-Nov-04	Motorcyclist	Second Trailing	3.62E-01
02-Nov-04	Motorcyclist	Second Trailing	2.98E-01

Table G-204
Comparison of Different Riding Positions for Children (Figure 7)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Position	PCMe (fibers/cc)
29-Sep-05	Motorcyclist	Second Trailing	3.93E-01
02-Nov-04	Motorcyclist	Second Trailing	7.60E-01
28-Sep-05	Motorcyclist	Second Trailing	7.07E-01
27-Sep-05	Motorcyclist	Second Trailing	3.72E-01
28-Sep-05	Motorcyclist	Second Trailing	1.23E+00
27-Sep-05	Motorcyclist	Second Trailing	6.51E-01
03-Nov-04	Motorcyclist	Second Trailing	6.48E-02
03-Nov-04	Motorcyclist	Second Trailing	2.16E-01
03-Nov-04	ATV Driver/Rider	Lead	4.41E-02
02-Nov-04	ATV Driver/Rider	Lead	1.45E-01
02-Nov-04	ATV Driver/Rider	Lead	1.25E-01
27-Sep-05	ATV Driver/Rider	Lead	1.04E-01
28-Sep-05	ATV Driver/Rider	Lead	2.48E-01
28-Sep-05	ATV Driver/Rider	Lead	3.33E-01
29-Sep-05	ATV Driver/Rider	Lead	3.22E-01
11-Feb-05	ATV Driver/Rider	Lead	9.60E-03
03-Nov-04	ATV Driver/Rider	First Trailing	1.28E+00
02-Nov-04	ATV Driver/Rider	First Trailing	1.27E+00
28-Sep-05	ATV Driver/Rider	First Trailing	6.92E-01
11-Feb-05	ATV Driver/Rider	First Trailing	9.14E-03
02-Nov-04	ATV Driver/Rider	Second Trailing	7.50E-01
28-Sep-05	ATV Driver/Rider	Second Trailing	3.85E-01
03-Nov-04	ATV Driver/Rider	Second Trailing	6.38E-01
02-Nov-04	ATV Driver/Rider	Second Trailing	5.63E-01
27-Sep-05	ATV Driver/Rider	Second Trailing	5.75E-01
03-Nov-04	SUV Driver/Rider	Lead	2.15E-02
02-Nov-04	SUV Driver/Rider	Lead	4.22E-01
29-Sep-05	SUV Driver/Rider	Lead	1.40E-01
03-Nov-04	SUV Driver/Rider	Lead	7.05E-02
27-Sep-05	SUV Driver/Rider	Lead	7.21E-03
02-Nov-04	SUV Driver/Rider	Lead	1.97E-01
28-Sep-05	SUV Driver/Rider	Lead	1.08E-01
11-Feb-05	SUV Driver/Rider	First Trailing	5.00E-03
27-Sep-05	SUV Driver/Rider	First Trailing	6.47E-02
27-Sep-05	SUV Driver/Rider	First Trailing	2.23E-01
02-Nov-04	SUV Driver/Rider	First Trailing	9.38E-01
03-Nov-04	SUV Driver/Rider	First Trailing	4.73E-01
29-Sep-05	SUV Driver/Rider	First Trailing	1.51E-01
03-Nov-04	SUV Driver/Rider	First Trailing	7.94E-01
29-Sep-05	SUV Driver/Rider	First Trailing	4.16E-01
28-Sep-05	SUV Driver/Rider	First Trailing	4.68E-02
28-Sep-05	SUV Driver/Rider	First Trailing	4.57E-02
27-Sep-05	Hiker	Lead	1.85E-02
28-Sep-05	Hiker	Lead	1.42E-02
02-Nov-04	Hiker	Lead	1.49E-02
11-Feb-05	Hiker	Lead	1.55E-02
28-Sep-05	Hiker	Lead	6.52E-02
29-Sep-05	Hiker	Lead	4.90E-03
27-Sep-05	Hiker	First Trailing	1.38E-02

Table G-204
Comparison of Different Riding Positions for Children (Figure 7)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Sample Date	Receptor	Position	PCMe (fibers/cc)
29-Sep-05	Hiker	First Trailing	2.92E-02
11-Feb-05	Hiker	First Trailing	8.69E-03
28-Sep-05	Hiker	First Trailing	7.49E-02
27-Sep-05	Hiker	First Trailing	3.18E-02
03-Nov-04	Hiker	First Trailing	1.99E-02
11-Feb-05	Hiker	First Trailing	4.58E-03
03-Nov-04	Hiker	First Trailing	9.83E-03
28-Sep-05	Hiker	First Trailing	2.52E-02
29-Sep-05	Hiker	First Trailing	4.17E-03

Table G-205
Ratio of Child to Adult Exposure Levels for Each Activity for Each Sampling Date (Figure 8)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Event	Sample Date	Receptor	Position	PCMe (fibers/cc)		Ratio
				Adult	Child	
2004Nov	02-Nov-04	Motorcyclist	First Trailing	2.03E-01	7.50E-01	3.7
2004Nov	02-Nov-04	Motorcyclist	First Trailing	3.31E-01	7.14E-01	2.2
2004Nov	02-Nov-04	Motorcyclist	Lead	4.03E-02	3.50E-02	0.9
2004Nov	02-Nov-04	Motorcyclist	Lead	9.38E-02	1.79E-01	1.9
2004Nov	02-Nov-04	Motorcyclist	Second Trailing	1.41E-01	2.98E-01	2.1
2004Nov	03-Nov-04	Motorcyclist	Second Trailing	1.33E-01	6.48E-02	0.5
2004Nov	02-Nov-04	Motorcyclist	Second Trailing	4.38E-01	1.09E+00	2.5
2004Nov	03-Nov-04	ATV Driver/Rider	First Trailing	5.73E-01	1.28E+00	2.2
2004Nov	02-Nov-04	ATV Driver/Rider	First Trailing	7.98E-01	1.27E+00	1.6
2004Nov	02-Nov-04	ATV Driver/Rider	Lead	4.59E-02	1.45E-01	3.2
2004Nov	03-Nov-04	ATV Driver/Rider	Lead	9.79E-03	4.41E-02	4.5
2004Nov	02-Nov-04	ATV Driver/Rider	Lead	2.14E-02	1.25E-01	5.9
2004Nov	02-Nov-04	ATV Driver/Rider	Second Trailing	2.04E+00	5.63E-01	0.3
2004Nov	02-Nov-04	ATV Driver/Rider	Second Trailing	7.24E-01	7.50E-01	1.0
2004Nov	03-Nov-04	ATV Driver/Rider	Second Trailing	1.24E-01	6.38E-01	5.1
2004Nov	02-Nov-04	SUV Driver/Rider	Lead	1.18E-01	1.97E-01	1.7
2004Nov	02-Nov-04	SUV Driver/Rider	Lead	1.96E-01	4.22E-01	2.1
2004Nov	03-Nov-04	SUV Driver/Rider	Lead	8.51E-02	2.15E-02	0.3
2004Nov	03-Nov-04	SUV Driver/Rider	Lead	4.64E-02	7.05E-02	1.5
2004Nov	02-Nov-04	SUV Driver/Rider	Second Trailing	1.41E-01	9.38E-01	6.7
2004Nov	03-Nov-04	SUV Driver/Rider	Second Trailing	5.53E-01	7.94E-01	1.4
2004Nov	03-Nov-04	SUV Driver/Rider	Second Trailing	2.05E-01	4.73E-01	2.3
2004Nov	03-Nov-04	Hiker	First Trailing	9.83E-03	1.99E-02	2.0
2004Nov	02-Nov-04	Hiker	Lead	9.97E-03	1.49E-02	1.5
2004Nov	02-Nov-04	Camper	Lead	5.34E-02	4.35E-02	0.8
2005Feb	11-Feb-05	Motorcyclist	First Trailing	1.99E-02	9.97E-03	0.5
2005Feb	11-Feb-05	Motorcyclist	Lead	1.00E-02	1.99E-02	2.0
2005Feb	11-Feb-05	Motorcyclist	Second Trailing	5.98E-02	1.46E-01	2.4
2005Feb	11-Feb-05	ATV Driver/Rider	First Trailing	3.00E-02	9.14E-03	0.3
2005Feb	11-Feb-05	ATV Driver/Rider	Lead	1.48E-01	9.60E-03	0.1
2005Feb	11-Feb-05	Hiker	First Trailing	4.58E-03	8.69E-03	1.9
2005Sep	28-Sep-05	Motorcyclist	First Trailing	3.06E-01	4.56E-01	1.5
2005Sep	27-Sep-05	Motorcyclist	First Trailing	5.14E-01	5.06E-01	1.0
2005Sep	27-Sep-05	Motorcyclist	First Trailing	3.07E-01	5.89E-01	1.9
2005Sep	27-Sep-05	Motorcyclist	Lead	9.90E-03	1.25E-01	12.6
2005Sep	29-Sep-05	Motorcyclist	Lead	2.47E-02	4.81E-02	1.9
2005Sep	28-Sep-05	Motorcyclist	Lead	2.00E-02	4.50E-02	2.2
2005Sep	28-Sep-05	Motorcyclist	Second Trailing	1.28E+00	1.23E+00	1.0
2005Sep	27-Sep-05	Motorcyclist	Second Trailing	3.51E-01	3.72E-01	1.1
2005Sep	29-Sep-05	Motorcyclist	Second Trailing	8.28E-01	3.93E-01	0.5
2005Sep	28-Sep-05	Motorcyclist	Second Trailing	4.51E-01	7.07E-01	1.6

Table G-205
Ratio of Child to Adult Exposure Levels for Each Activity for Each Sampling Date (Figure 8)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Event	Sample Date	Receptor	Position	PCMe (fibers/cc)		Ratio
				Adult	Child	
2005Sep	28-Sep-05	ATV Driver/Rider	Lead	4.39E-03	2.48E-01	56.6
2005Sep	27-Sep-05	ATV Driver/Rider	Lead	5.43E-02	1.04E-01	1.9
2005Sep	27-Sep-05	ATV Driver/Rider	Second Trailing	3.88E-01	5.75E-01	1.5
2005Sep	28-Sep-05	ATV Driver/Rider	Second Trailing	4.32E-01	3.85E-01	0.9
2005Sep	27-Sep-05	SUV Driver/Rider	Lead	1.41E-02	7.21E-03	0.5
2005Sep	29-Sep-05	SUV Driver/Rider	Lead	5.65E-02	6.97E-02	1.2
2005Sep	27-Sep-05	SUV Driver/Rider	Lead	1.48E-01	1.36E-01	0.9
2005Sep	29-Sep-05	SUV Driver/Rider	Lead	1.69E-01	1.40E-01	0.8
2005Sep	27-Sep-05	SUV Driver/Rider	Lead	5.95E-02	4.96E-02	0.8
2005Sep	28-Sep-05	SUV Driver/Rider	Lead	1.37E-01	1.08E-01	0.8
2005Sep	28-Sep-05	SUV Driver/Rider	Lead	3.27E-02	1.90E-02	0.6
2005Sep	29-Sep-05	SUV Driver/Rider	Second Trailing	4.80E-01	4.16E-01	0.9
2005Sep	27-Sep-05	SUV Driver/Rider	Second Trailing	3.97E-02	2.23E-01	5.6
2005Sep	28-Sep-05	SUV Driver/Rider	Second Trailing	1.59E-01	9.82E-02	0.6
2005Sep	27-Sep-05	SUV Driver/Rider	Second Trailing	9.43E-02	6.47E-02	0.7
2005Sep	28-Sep-05	SUV Driver/Rider	Second Trailing	4.64E-02	4.57E-02	1.0
2005Sep	27-Sep-05	SUV Driver/Rider	Second Trailing	2.56E-01	7.77E-01	3.0
2005Sep	28-Sep-05	Hiker	First Trailing	2.81E-02	7.49E-02	2.7
2005Sep	27-Sep-05	Hiker	First Trailing	2.85E-02	3.18E-02	1.1
2005Sep	29-Sep-05	Hiker	First Trailing	4.17E-03	2.92E-02	7.0
2005Sep	28-Sep-05	Hiker	Lead	5.10E-02	6.52E-02	1.3
2005Sep	28-Sep-05	Camper	Lead	8.95E-03	3.91E-02	4.4
2005Sep	28-Sep-05	Camper	Lead	4.12E-02	1.32E-02	0.3

Table G-206
Windows Open vs. Windows Closed Scenarios (Figure 9)
Human Health Risk Assessment
CCMA Asbestos Exposures (All Events)

Window Position	Location	Position	Sample Date	PCMe (fibers/cc)
Open	SUV Lead Windows Open	Lead	27-Sep-05	1.48E-01
Open	SUV Lead Windows Open	Lead	29-Sep-05	6.97E-02
Open	SUV Lead Windows Open	Lead	29-Sep-05	5.65E-02
Open	SUV Lead Windows Open	Lead	27-Sep-05	1.36E-01
Open	SUV Lead Windows Open	Lead	27-Sep-05	5.95E-02
Open	SUV Lead Windows Open	Lead	27-Sep-05	4.96E-02
Open	SUV Lead Windows Open	Lead	28-Sep-05	3.27E-02
Open	SUV Lead Windows Open	Lead	28-Sep-05	1.90E-02
Open	SUV Lead Windows Open	Lead	28-Sep-05	2.86E-01
Open	SUV Tail Windows Open	Trailing	28-Sep-05	9.82E-02
Open	SUV Tail Windows Open	Trailing	27-Sep-05	2.56E-01
Open	SUV Tail Windows Open	Trailing	27-Sep-05	7.77E-01
Open	SUV Tail Windows Open	Trailing	28-Sep-05	1.59E-01
Open	SUV Tail Windows Open	Trailing	28-Sep-05	9.79E-01
Closed	SUV Lead Windows Closed	Lead	29-Sep-05	1.40E-01
Closed	SUV Lead Windows Closed	Lead	27-Sep-05	7.21E-03
Closed	SUV Lead Windows Closed	Lead	28-Sep-05	1.37E-01
Closed	SUV Lead Windows Closed	Lead	27-Sep-05	1.41E-02
Closed	SUV Lead Windows Closed	Lead	28-Sep-05	1.08E-01
Closed	SUV Lead Windows Closed	Lead	29-Sep-05	1.69E-01
Closed	SUV Tail Windows Closed	Trailing	27-Sep-05	3.97E-02
Closed	SUV Tail Windows Closed	Trailing	27-Sep-05	2.23E-01
Closed	SUV Tail Windows Closed	Trailing	29-Sep-05	4.80E-01
Closed	SUV Tail Windows Closed	Trailing	29-Sep-05	1.51E-01
Closed	SUV Tail Windows Closed	Trailing	29-Sep-05	1.13E-01
Closed	SUV Tail Windows Closed	Trailing	28-Sep-05	4.68E-02
Closed	SUV Tail Windows Closed	Trailing	27-Sep-05	6.47E-02
Closed	SUV Tail Windows Closed	Trailing	28-Sep-05	4.57E-02
Closed	SUV Tail Windows Closed	Trailing	28-Sep-05	4.64E-02
Closed	SUV Tail Windows Closed	Trailing	29-Sep-05	4.16E-01
Closed	SUV Tail Windows Closed	Trailing	27-Sep-05	9.43E-02