

Appendix E-6

Air Resources Board Draft Weaverville Road Study



Winston H. Hickox
Secretary for
Environmental
Protection

Air Resources Board

Barbara Riordan, Chairman
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Gray Davis
Governor

MEMORANDUM

TO: Todd Wong, Manager
Emissions Assessment Branch
Stationary Source Division

FROM: Michael Spears, Manager
Evaluation Section
Monitoring and Laboratory Division 

DATE: May 13, 1999

SUBJECT: PRELIMINARY RESULTS OF AIRBORNE ASBESTOS MONITORING,
PERFORMED OCTOBER 20 - 23, 1999, NEAR WEAVERVILLE
CALIFORNIA

As requested in your PES note sent last summer (1998) we have completed the airborne asbestos monitoring south of Weaverville for the North Coast Air Quality Management District. This memo contains the preliminary results of this sampling program. Staff conducted the monitoring from October 20, 1998 through October 23, 1998. ARB and District Staffs chose six sampling sites. Staff took a total of 48 samples and two blanks. The highest concentration measured was 0.0232 fibers per cubic centimeters.

Each sampling site had two 24-hour samplers and a meteorological station. The two 24-hour samplers were co-located to set precision of the results. Meteorological stations measure and record wind speed and direction. Directional samplers were set up at the sampling site called "stream" and at the sampling site called "rest area." The STREAM site was north of the north entrance of the inactive quarry. The RESTAREA site was about a mile due south of the quarry. The directional samplers were set up to collect an air sample from a designated direction. One sampler sampled air that did not come from the direction of the quarry. The second directional sampler was set up to collect air coming from the direction of the quarry.

The attached map shows the location of sampling sites (Attachment 1a). A Magellan GPS Tracker determined longitude and latitude (Attachment 1b) of each sampling site. The accuracy of the nonmilitary GPS is poor. Ten GPS readings taken at one location over time can better define a location. Staff took only one reading at each site for the Weaverville monitoring program. The GPS locations in Attachment 1a were adjusted using a topographical map. Site photographs are available upon request.

California Environmental Protection Agency

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Attachment 2a contains a listing of the samples collected. The measured concentrations for the samples is reported in Attachment 2b. We have reported the results for all fibers and those fibers greater than 5 microns in length. The results in Attachment 2b should not be put on the ARB Web Page since the names of private residences are listed.

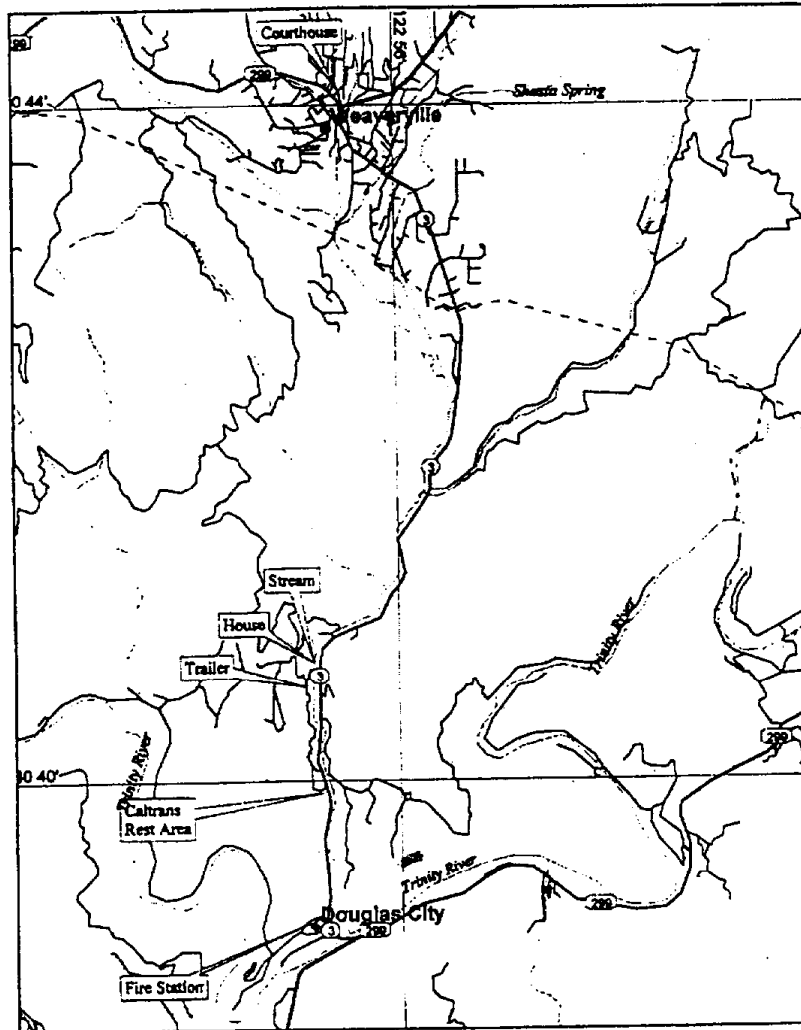
A meteorological station was set up at each sampling site. Wind roses for each sampling period and site are found in Attachment 3. The raw data is in electronic form and is available electronically.

In the past, you have requested the fiber dimension data. The computer generated count sheets contains this information. The count sheets are part of the RJ Lee report contained in Attachments.

If you have suggestions or comments or need further information, please contact me at 263-1627 or have your staff contact James McCormack at 263-2060.

Attachments (4)

ATTACHMENT 1a
Sampling Locations



ATTACHMENT 1b
Longitude and Latitude of Sampling Sites

Site #	Sampling Location	longitude	latitude	longitude	latitude
		Degrees-Minutes	Degrees-Minutes	Degrees	Degrees
1	Stream	40° 40.71N	122° 56.68W	40.67850N	122.94333W
2	House	40° 40.71N	122° 56.71W	40.67850N	122.94500W
3	Trailer	40° 40.63N	122° 56.60W	40.67717N	122.94333W
4	Rest Area	40° 39.93N	122° 56.60W	40.66550N	122.94333W
5	Fire Station	40° 39.11N	122° 56.58W	40.65183N	122.94167W
6	Court House	40° 44.07N	122° 56.46W	40.73450N	122.94000W

ATTACHMENT 2a
Sample Log

Log #	Sample ID	Start				End		Sampler #	Comments	Site Name
		Date	Time	Flow rate	ETM	Flow rate	ETM			
TRI-1	WS1-1	10/20	9:15 AM	3.00	918.73	3.17	942.72	959		stream
TRI-2	WS2-1	10/20	9:15 AM	3.00	936.03	3.00	960.02	255		stream
TRI-3	WSN-1	10/20	9:30 AM	9.0	35.7	9.0	57.2	5		stream
TRI-4	WSS-1	10/20	9:30 AM	9.0	162.8	8.5	165.3	5		stream
TRI-5	WH1-1	10/20	9:45 AM	3.00	1190.05	3.00	1213.99	917		house
TRI-6	WH2-1	10/20	9:45 AM	3.00	1208.17	3.00	1232.1	918		house
TRI-7	TLR1-1	10/20	10:30 AM	3.00	1802.67	3.00	1826.66	958		trailer-power pole
TRI-8	TLR2-1	10/20	10:30 AM	3.00	1144.22	2.86	1168.21	957		trailer-power pole
TRI-9	RA1-1	10/20	11:15 AM	3.00	926.97	2.82	950.96	852		rest area
TRI-10	RA2-1	10/20	11:15 AM	3.00	257.31	2.95	281.3	337		rest area
TRI-11	RAN-1	10/20	11:15 AM	9.0	6	10.3	17.9	2		rest area
TRI-12	RAS-1	10/20	11:15 AM	9.0	211.1	10.3	223.1	2		rest area
TRI-13	FS1-1	10/20	12:15 PM	3.00	1775.05	3.00	1799.05	916		fire station
TRI-14	FS2-1	10/20	12:15 PM	3.00	1841.01	3.00	1865	960		fire station
TRI-15	CH1-1	10/20	1:30 PM	3.00	1028.51	2.97	1052.5	956		court house
TRI-16	CH2-1	10/20	1:30 PM	3.00	1365.98	2.95	1376.75	589		court house
TRI-17	WS1-2	10/21	9:15 AM	3.00	1747.98	3.00	1771.97	252		stream
TRI-18	WS2-2	10/21	9:15 AM	3.00	1867.18	3.17	1891.19	961		stream
TRI-19	WSN-2	10/21	9:45 AM	9.0	57.2	8.0	76.3	5		stream
TRI-20	WSS-2	10/21	9:45 AM	9.0	165.2	8.7	170.2	5		stream
TRI-21	WH1-2	10/21	9:30 AM	3.00	1071.03	3.20	1095.02	257		house
TRI-22	WH2-2	10/21	9:30 AM	3.00	703.5	3.20	727.49	248		house
TRI-23	TLR1-2	10/21	10:45 AM	3.00	960.02	2.94	984.01	255		trailer-power pole
TRI-24	TLR2-2	10/21	10:45 AM	3.00	942.72	2.94	966.71	959		trailer-power pole
TRI-25	RA1-2	10/21	11:30 AM	3.00	1232.11	3.10	1256.1	918		rest area
TRI-26	RA2-2	10/21	11:30 AM	3.00	1401.63	3.00	1425.62	245		rest area
TRI-27	RAN-2	10/21	11:45 AM	9.0	17.9	8.2	35	2		rest area
TRI-28	RAS-2	10/21	11:45 AM	9.0	223.1	8.8	229.9	2		rest area
TRI-29	FS1-2	10/21	12:30 PM	3.00	1168.21	2.88	1192.21	957		fire station
TRI-30	FS2-2	10/21	2:50 PM	3.00	1826.68	3.10	1848.14	958	1st sampler died	fire station
			12:30 PM	3.00	950.96		951.41	852		
TRI-31	CH1-2	10/21	1:15 PM	3.00	1865	3.00	1888.99	960		court house
TRI-32	CH2-2	10/21	1:15 PM	3.00	281.31	2.70	305.3	337		court house
TRI-33	WS1-3	10/22	9:15 AM	3.00	1052.5	2.93	1076.49	956		stream
TRI-34	WS2-3	10/22	9:15 AM	3.00	704.16	2.94	728.15	254		stream
TRI-35	WSN-3	10/22	9:45 AM	9.0	76.3	5.7	96.5	5		stream
TRI-36	WSS-3	10/22	9:45 AM	9.0	170.2	8.9	173.9	5		stream
TRI-37	WH1-3	10/22	9:15 AM	3.00	1214.02	3.17	1231.97	917		house
TRI-38	WH2-3	10/22	9:15 AM	3.00	1799.07	2.93	1823.03	916		house
TRI-39	TLR1-3	10/22	10:30 AM	3.00	1771.98	2.91	1795.97	252		trailer-power pole
TRI-40	TLR2-3	10/22	10:30 AM	3.00	1095.02	2.91	1119.01	257		trailer-power pole
TRI-41	RA1-3	10/22	11:15 AM	3.00	984.01	2.96	1008	255		rest area
TRI-42	RA2-3	10/22	11:15 AM	2.96	966.7	3.00	990.7	959		rest area
TRI-43	RAN-3	10/22	11:45 AM	9.0	35	7.2	49.9	2		rest area
TRI-44	RAS-3	10/22	11:45 AM	9.0	229.9	8.3	238.8	2		rest area
TRI-45	FS1-3	10/22	12:15 PM	3.00	1256.1	3.00	1280.09	918		fire station
TRI-46	FS2-3	10/22	12:15 PM	3.00	1425.62	2.95	1449.61	245		fire station
TRI-47	CH1-3	10/22	1:15 PM	3.00	1891.2	2.83	1915.19	961		court house
TRI-48	CH2-3	10/22	1:15 PM	3.00	727.5	2.91	751.49	248		court house
TRI-49	BUDS-2	10/22	12:15 PM	3.00	0	3.00	24		box blank	
TRI-50	BUDS-1	10/22	12:15 PM	3.00	0	3.00	24	956	field blank	

Notes: ETM is the acronym for Elapsed Time Meter
Sampling time is the difference in the ETM readings in units of hours.

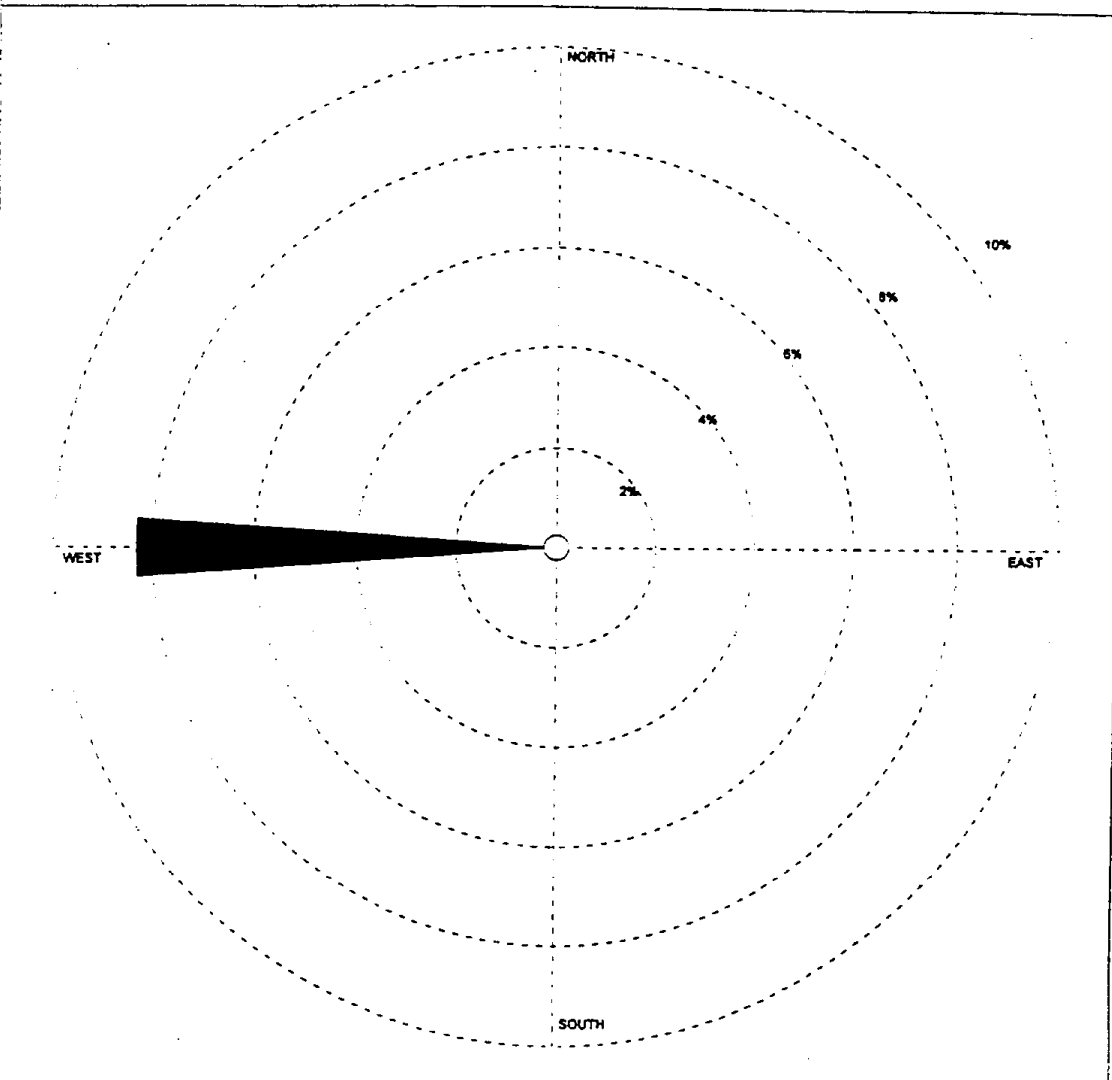
Attachment 2b
Results of Airborne Asbestos Monitoring

Log Number	Sample Number	Sampling Period	Sampling Location	Concentration Measured		
				MDL (S/cc)	All Fibers (S/cc)	>=5um (S/cc)
TRI-15	CH1-1	10/20 - 10/21/98	Court House - sampler 1	0.0010	ND	ND
TRI-16	CH2-1	10/20 - 10/21/98	Court House - sampler 2	0.0022	ND	ND
TRI-31	CH1-2	10/21 - 10/22/98	Court House - sampler 1	0.0010	ND	ND
TRI-32	CH2-2	10/21 - 10/22/98	Court House - sampler 2	0.0010	ND	ND
TRI-47	CH1-3	10/22 - 10/23/98	Court House - sampler 1	0.0010	ND	ND
TRI-48	CH2-3	10/22 - 10/23/98	Court House - sampler 2	0.0010	0.0010	0.0010
TRI-13	FS1-1	10/20 - 10/21/98	Fire Station - sampler 1	0.0010	ND	ND
TRI-14	FS2-1	10/20 - 10/21/98	Fire Station - sampler 2	0.0010	ND	ND
TRI-29	FS1-2	10/21 - 10/22/98	Fire Station - sampler 1	0.0010	0.0010	ND
TRI-30	FS2-2	10/21 - 10/22/98	Fire Station - sampler 2	0.0010	0.0010	0.0010
TRI-45	FS1-3	10/22 - 10/23/98	Fire Station - sampler 1	0.0010	ND	ND
TRI-46	FS2-3	10/22 - 10/23/98	Fire Station - sampler 2	0.0010	ND	ND
TRI-9	RA1-1	10/20 - 10/21/98	Rest Area - sampler 1	0.0010	0.0050	0.0010
TRI-10	RA2-1	10/20 - 10/21/98	Rest Area - sampler 2	0.0010	0.0029	ND
TRI-25	RA1-2	10/21 - 10/22/98	Rest Area - sampler 1	0.0010	0.0019	ND
TRI-26	RA2-2	10/21 - 10/22/98	Rest Area - sampler 2	0.0010	0.0087	ND
TRI-41	RA1-3	10/22 - 10/23/98	Rest Area - sampler 1	0.0010	ND	ND
TRI-42	RA2-3	10/22 - 10/23/98	Rest Area - sampler 2	0.0010	0.0010	ND
TRI-11	RAN-1	10/20 - 10/21/98	Rest Area - sampler facing north	0.0006	0.0012	0.0006
TRI-12	RAS-1	10/20 - 10/21/98	Rest Area - sampler facing south	0.0006	0.0006	0.0006
TRI-27	RAN-2	10/21 - 10/22/98	Rest Area - sampler facing north	0.0005	0.0038	0.0005
TRI-28	RAS-2	10/21 - 10/22/98	Rest Area - sampler facing south	0.0012	0.0023	ND
TRI-43	RAN-3	10/22 - 10/23/98	Rest Area - sampler facing north	0.0006	ND	ND
TRI-44	RAS-3	10/22 - 10/23/98	Rest Area - sampler facing south	0.0009	ND	ND
TRI-7	TLR1-1	10/20 - 10/21/98	Telephone Pole at Trailer - sampler 1	0.0010	ND	ND
TRI-8	TLR2-1	10/20 - 10/21/98	Telephone Pole at Trailer - sampler 2	0.0010	0.0089	ND
TRI-23	TLR1-2	10/21 - 10/22/98	Telephone Pole at Trailer - sampler 1	0.0010	0.0078	ND
TRI-24	TLR2-2	10/21 - 10/22/98	Telephone Pole at Trailer - sampler 2	0.0010	0.0010	ND
TRI-39	TLR1-3	10/22 - 10/23/98	Telephone Pole at Trailer - sampler 1	0.0010	ND	ND
TRI-40	TLR2-3	10/22 - 10/23/98	Telephone Pole at Trailer - sampler 2	0.0010	0.0010	ND
TRI-5	WH1-1	10/20 - 10/21/98	Wallace Home - sampler 1	0.0010	ND	ND
TRI-6	WH2-1	10/20 - 10/21/98	Wallace Home - sampler 2	0.0010	0.0010	ND
TRI-21	WH1-2	10/21 - 10/22/98	Wallace Home - sampler 1	0.0009	ND	ND
TRI-22	WH2-2	10/21 - 10/22/98	Wallace Home - sampler 2	0.0009	ND	ND
TRI-37	WH1-3	10/22 - 10/23/98	Wallace Home - sampler 1	0.0013	ND	ND
TRI-38	WH2-3	10/22 - 10/23/98	Wallace Home - sampler 2	0.0010	ND	ND
TRI-1	WS1-1	10/20 - 10/21/98	Stream at Wallace Home - sampler 1	0.0009	0.0028	ND
TRI-2	WS2-1	10/20 - 10/21/98	Stream at Wallace Home - sampler 2	0.0010	ND	ND
TRI-17	WS1-2	10/21 - 10/22/98	Stream at Wallace Home - sampler 1	0.0010	ND	ND
TRI-18	WS2-2	10/21 - 10/22/98	Stream at Wallace Home - sampler 2	0.0009	ND	ND
TRI-33	WS1-3	10/22 - 10/23/98	Stream at Wallace Home - sampler 1	0.0010	ND	ND
TRI-34	WS2-3	10/22 - 10/23/98	Stream at Wallace Home - sampler 2	0.0010	ND	ND
TRI-3	WSN-1	10/20 - 10/21/98	Stream at Wallace Home - sampler facing north	0.0004	0.0004	ND
TRI-4	WSS-1	10/20 - 10/21/98	Stream at Wallace Home - sampler facing south	0.0032	0.0032	ND
TRI-19	WSN-2	10/21 - 10/22/98	Stream at Wallace Home - sampler facing north	0.0004	ND	ND
TRI-20	WSS-2	10/21 - 10/22/98	Stream at Wallace Home - sampler facing south	0.0016	ND	ND
TRI-35	WSN-3	10/22 - 10/23/98	Stream at Wallace Home - sampler facing north	0.0005	ND	ND
TRI-36	WSS-3	10/22 - 10/23/98	Stream at Wallace Home - sampler facing south	0.0021	0.0232	ND
TRI-49	BUDS-2	10/22 - 10/23/98	box blank	0.0010	ND	ND
TRI-50	BUDS-1	10/22 - 10/23/98	field blank	0.0010	ND	ND

ATTACHMENT 3
Meteorological Data

WIND ROSE PLOT

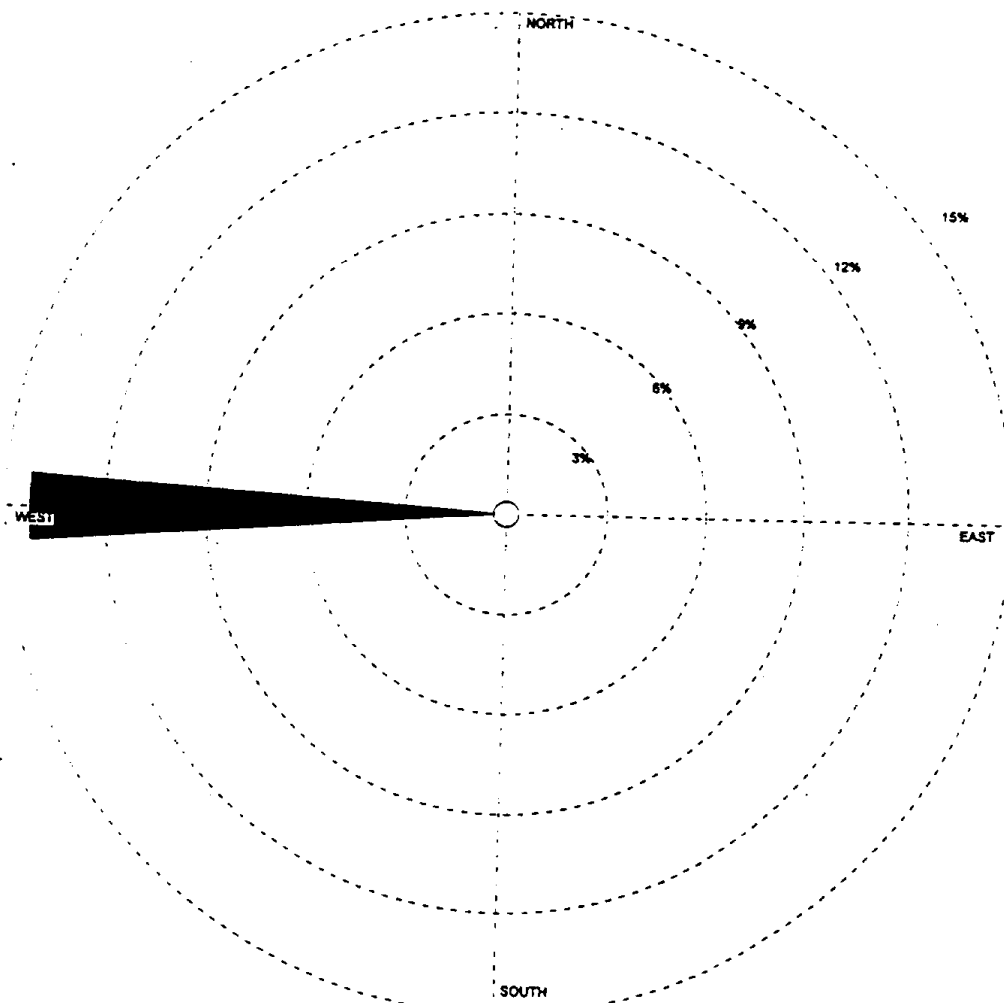
STATION #60000 - , Met Station On Telephone Pole Next to Trailer



Wind Speed (Knots)	MODELER	DATE 3/29/99	COMPANY NAME
	DISPLAY Wind Speed	UNIT Knots	COMMENTS Third Day of Sampling October 22-23, 1998 Start Time 0900 hrs
	AVG. WIND SPEED 1.00 Knots	CALM WINDS 91.67%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 22 - October 23 Midnight - 11 PM	PROJECT/PLOT NO. C-98-063

WIND ROSE PLOT

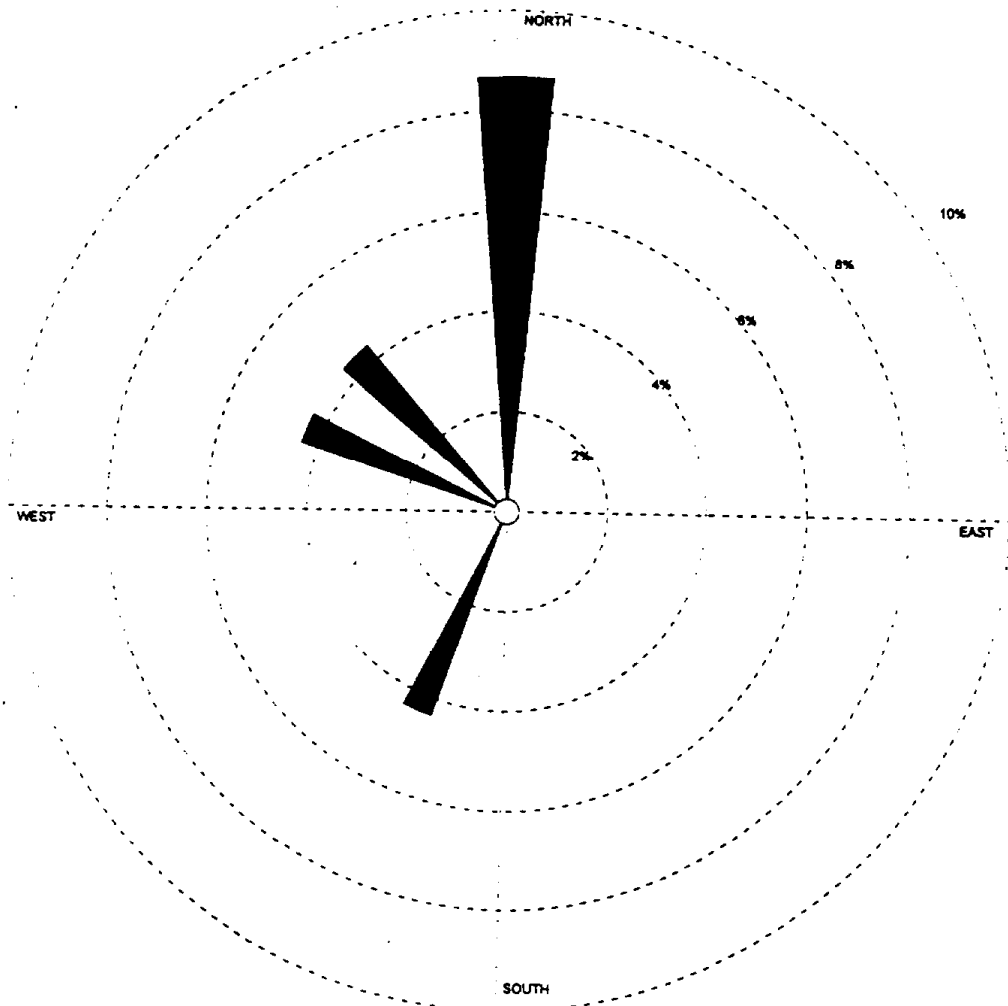
STATION #60000 - , Met Station On Telephone Pole Next to Trailer



Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
		3/29/99	
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Second Day of Sampling October 21-22, 1998 Start Time 0600 hrs
	AVG WIND SPEED	CALM WINDS	
1.00 Knots	85.71%		
ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO	
Direction (blowing from)	98 October 21 - October 22 Midnight - 11 PM	C-98-063	

WIND ROSE PLOT

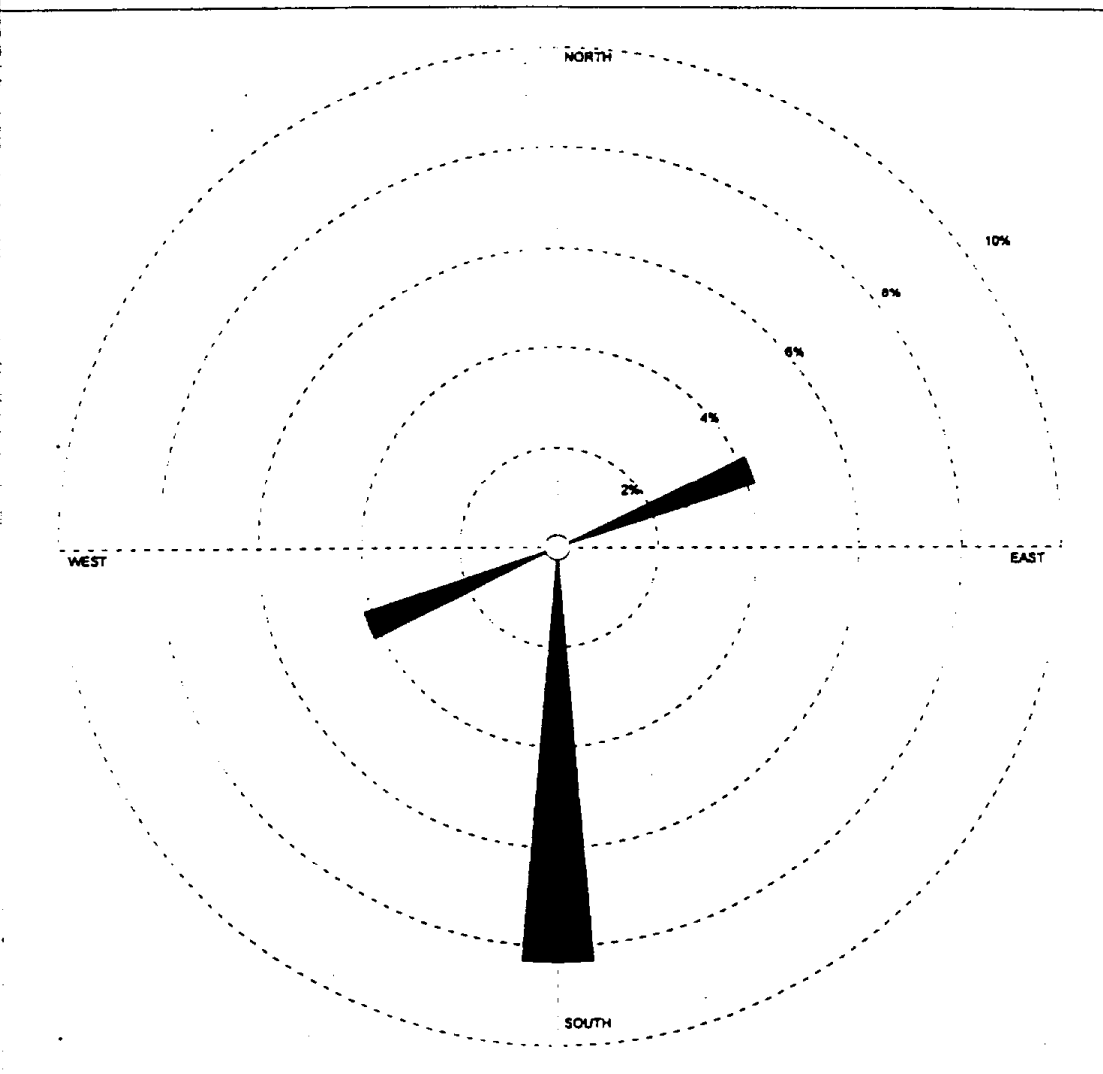
STATION #80000 - Met Station On Telephone Pole Next to Trailer



Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	First Day of Sampling October 20-21, 1998 Start Time 0900 hrs
	AVG. WIND SPEED	CALM WINDS	PROJECT/PLOT NO.
	1.80 Knots	78.26%	C-98-063
	ORIENTATION	PLOT YEAR-DATE-TIME	
	Direction (blowing from)	98 October 20 - October 21 Midnight - 11 PM	

WIND ROSE PLOT

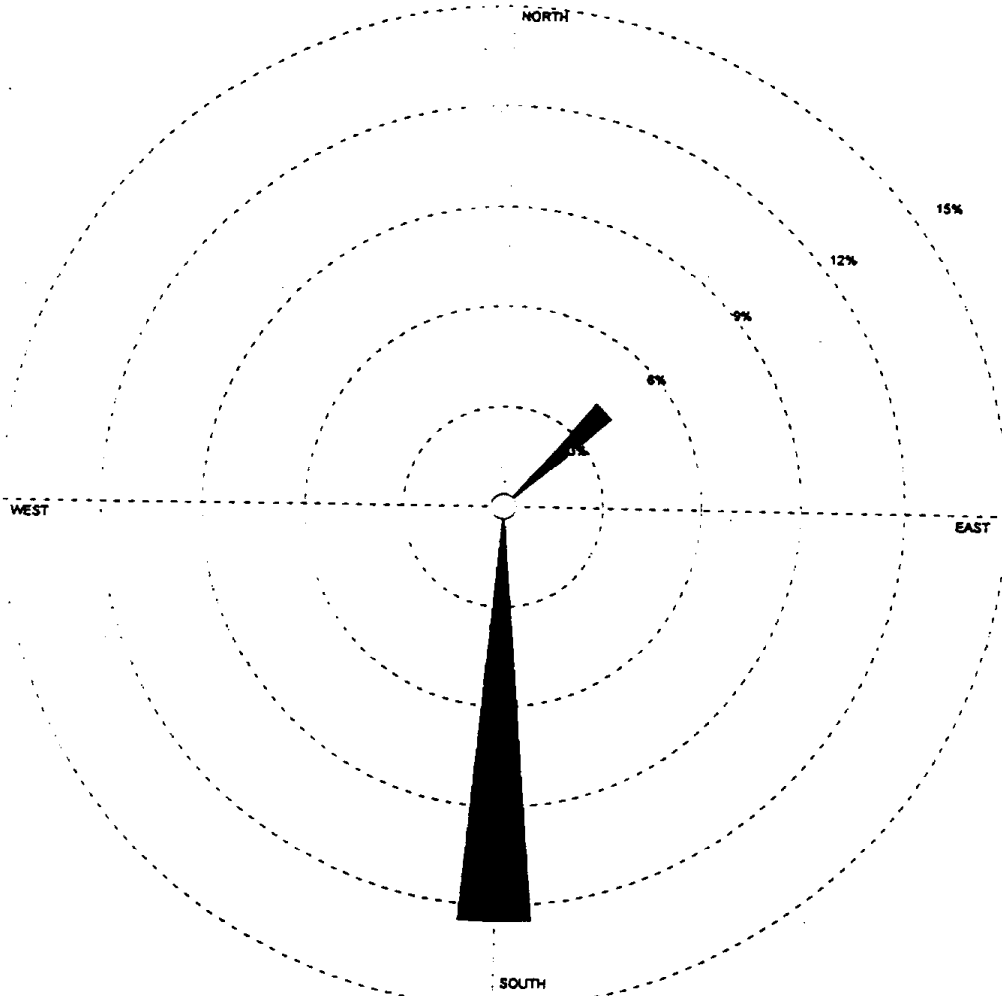
STATION #60000 - Met Station Next to Stream across from North Entrance to Quarry



 Wind Speed (Knots) > 21 17 - 21 11 - 16 7 - 10 4 - 6 1 - 3	MOODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Third Day of Sampling October 22-23, 1998 Start Time 0900 hrs
	AVG. WIND SPEED	CALM WINDS	
	1.25 Knots	83.33%	
	ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.
	Direction (blowing from)	98 October 22 - October 23 Midnight - 11 PM	C-98-063

WIND ROSE PLOT

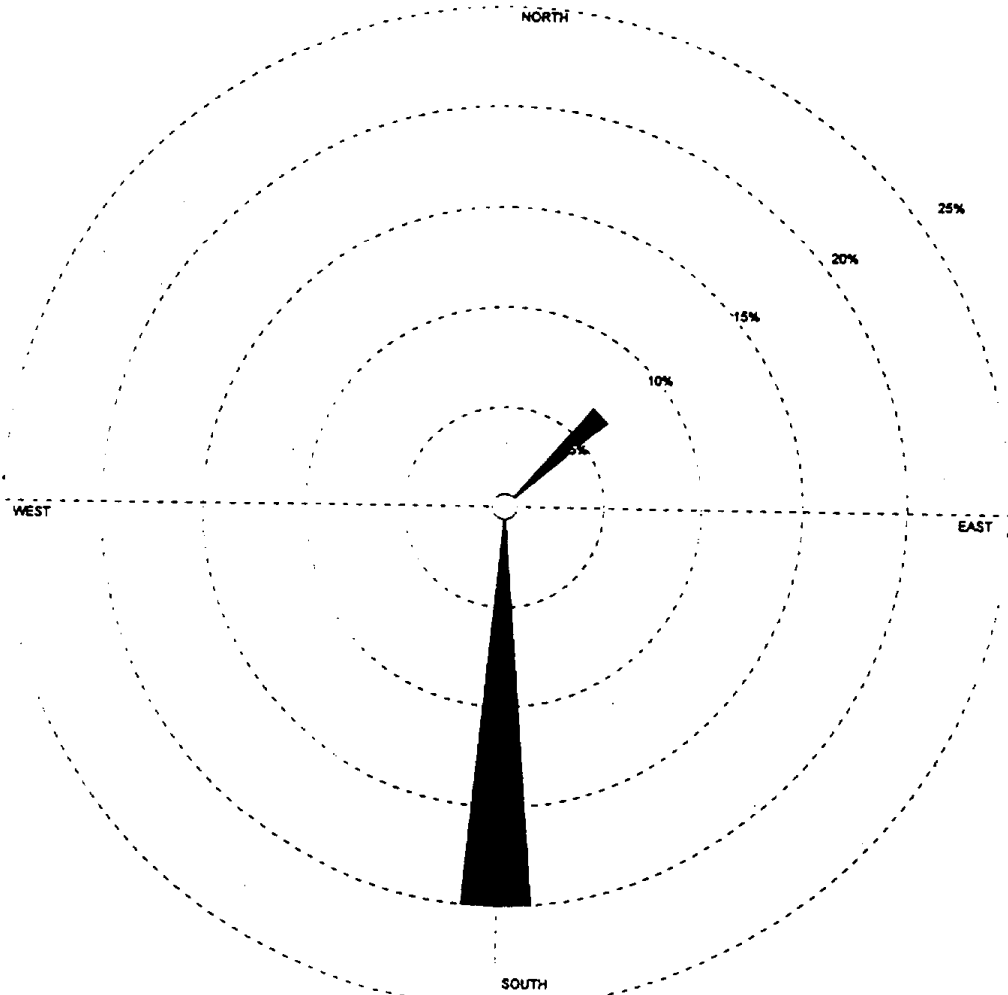
STATION #60000 - , Met Station Next to Stream across from North Entrance to Quarry



Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Second Day of Sampling October 21-22, 1998 Start Time 0900 hrs
	AVG. WIND SPEED	CALM WINDS	
	1.00 Knots	83.33%	
	ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.
	Direction (blowing from)	98 October 21 - October 22 Midnight - 11 PM	C-98-063

WIND ROSE PLOT

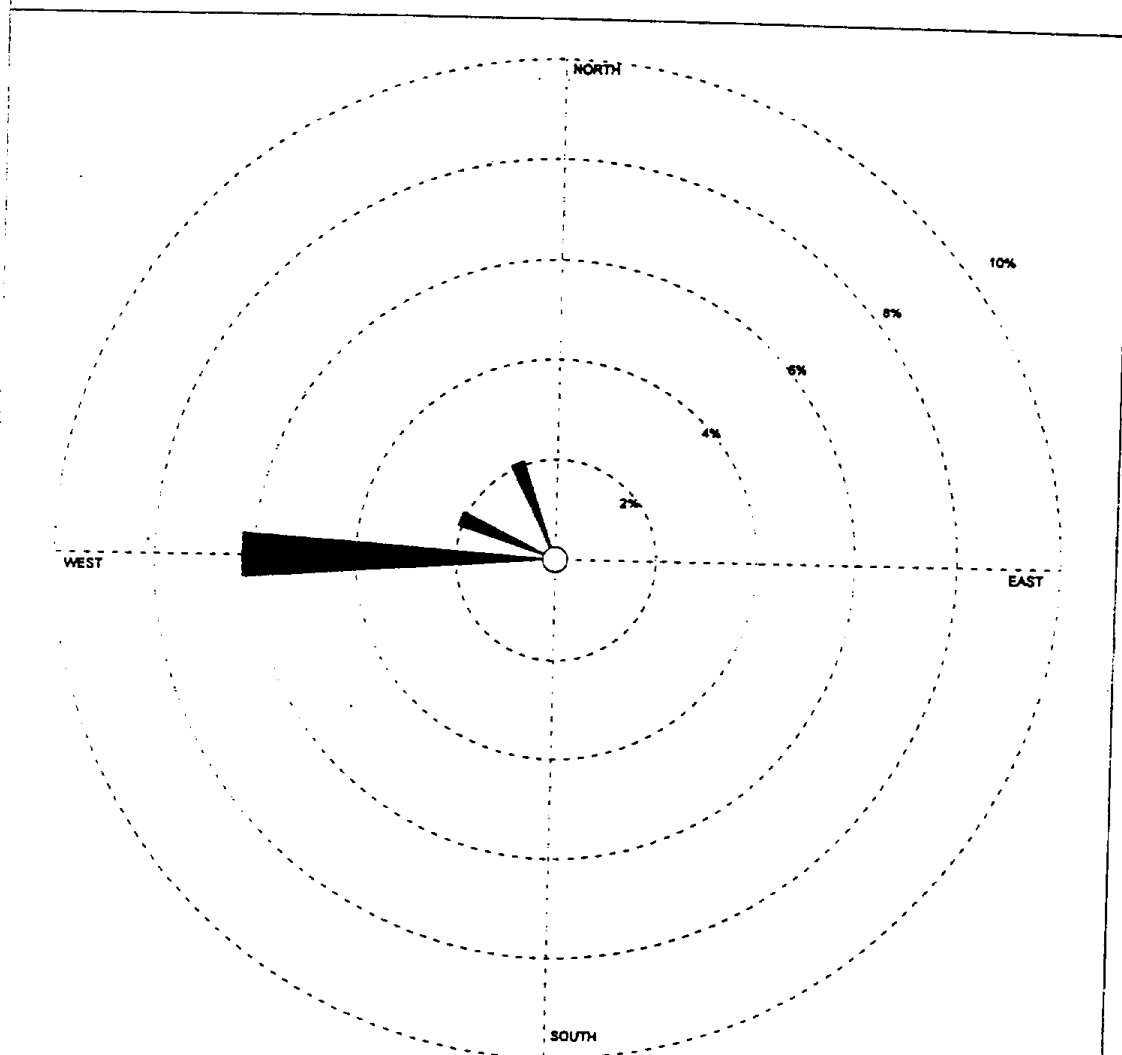
STATION #60000 - Met Station Next to Stream across from North Entrance to Quarry



Wind Speed (Knots) > 21 17 - 21 11 - 16 7 - 10 4 - 6 1 - 3	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	First Day of Sampling October 20-21, 1998 Start Time 0900 hrs
	AVG. WIND SPEED	CALM WINDS	
	1.00 Knots	73.33%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.	
	98 October 20 - October 21 Midnight - 11 PM	C-98-063	

WIND ROSE PLOT

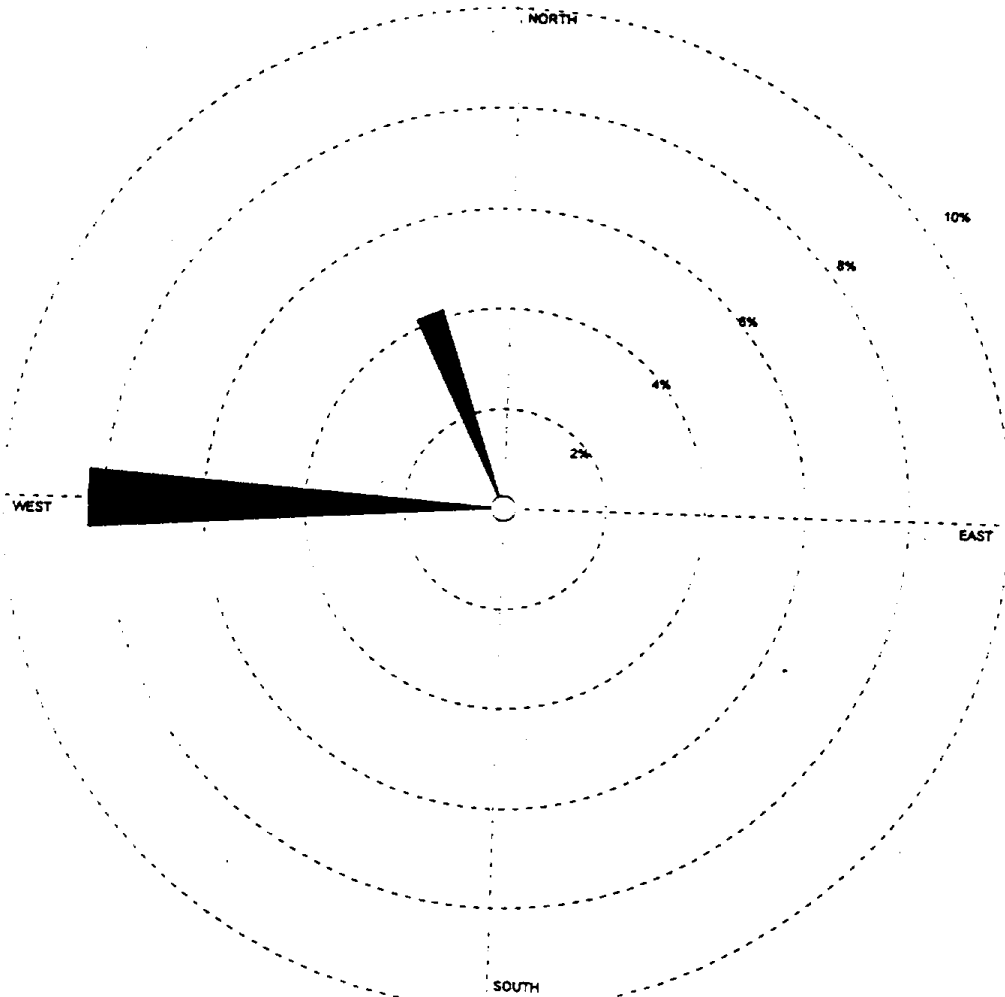
STATION #40000 - Met Station on Roof of Concession Stand in Caltrans Rest Area



Wind Speed (Knots) > 21 17 - 21 11 - 16 7 - 10 4 - 6 1 - 3	MODEL	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Third Day of Sampling October 22-23, 1998 Start Time 1100 hrs
	AVG. WIND SPEED	CALM WINDS	
	1.20 Knots	89.58%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO
		98 October 22 - October 23 Midnight - 11 PM	C-98-063

WIND ROSE PLOT

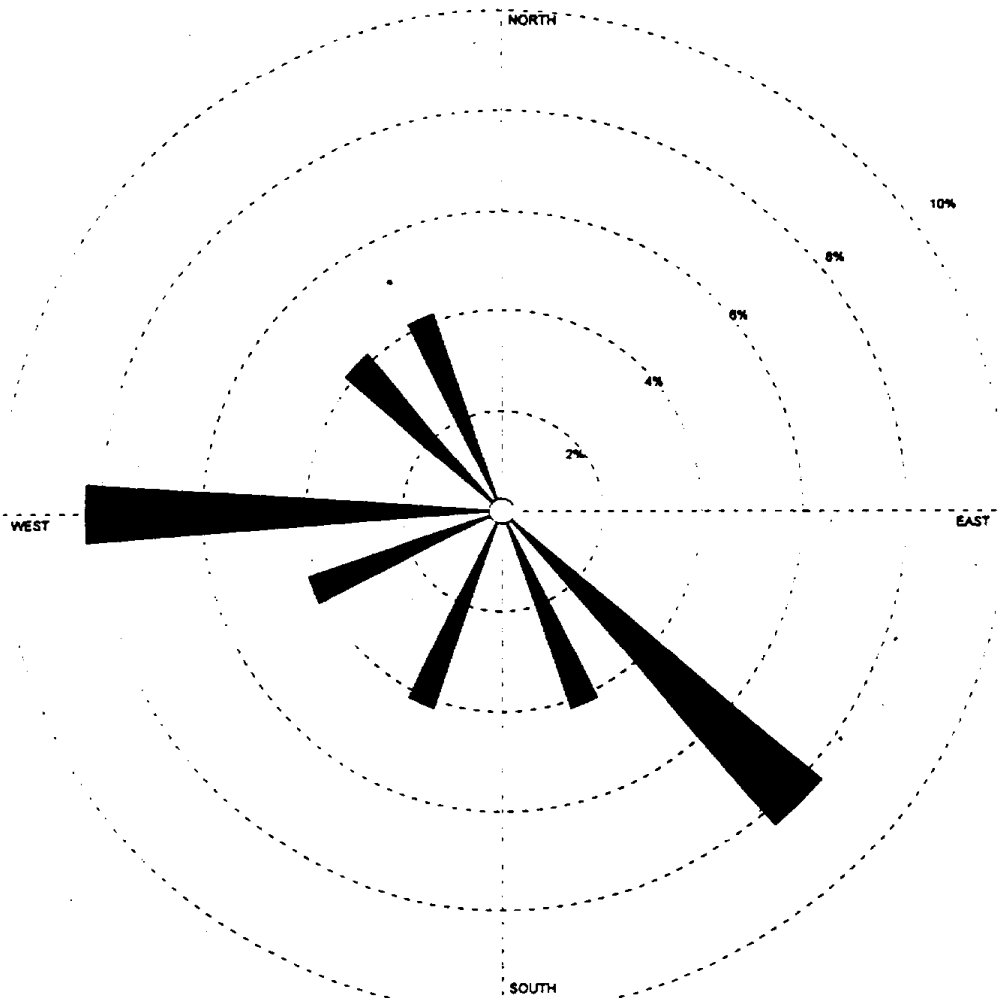
STATION #40000 - Met Station on Roof of Concession Stand in Caltrans Rest Area



Wind Speed (Knots) > 21 17 - 21 11 - 16 7 - 10 4 - 8	MOOREL	DATE	COMPANY NAME
		3/29/99	
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Second Day of Sampling October 21-22, 1998 Start Time 1100 hrs
	AVG. WIND SPEED	CALM WINDS	
2.00 Knots	87.50%		
ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.	
Direction (blowing from)	98 October 21 - October 22 Midnight - 11 PM	C-98-063	

WIND ROSE PLOT

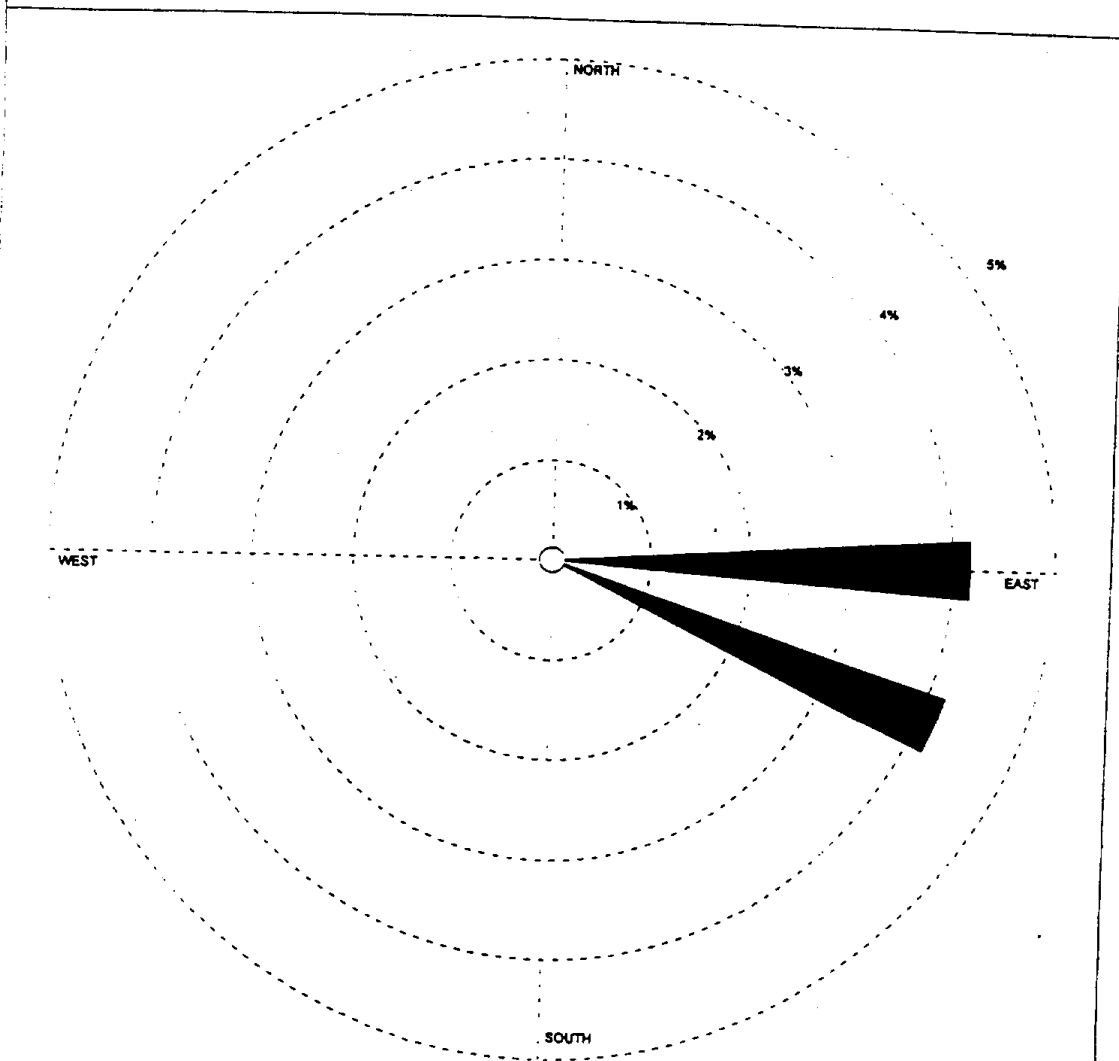
STATION #40000 - , Met Station on Roof of Concession Stand in Caltrans Rest Area



Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
		3/29/99	
> 21 17 - 21 11 - 16 7 - 10 4 - 6 1 - 3	DISPLAY Wind Speed Avg. Wind Speed 1.67 Knots ORIENTATION Direction (blowing from)	UNIT Knots CALM WINDS 62.50% PLOT YEAR-DATE-TIME 98 October 20 - October 21 Midnight - 11 PM	COMMENTS First Day of Sampling October 20-21, 1998 Start Time 1100 hrs PROJECT/PLOT NO C-98-063

WIND ROSE PLOT

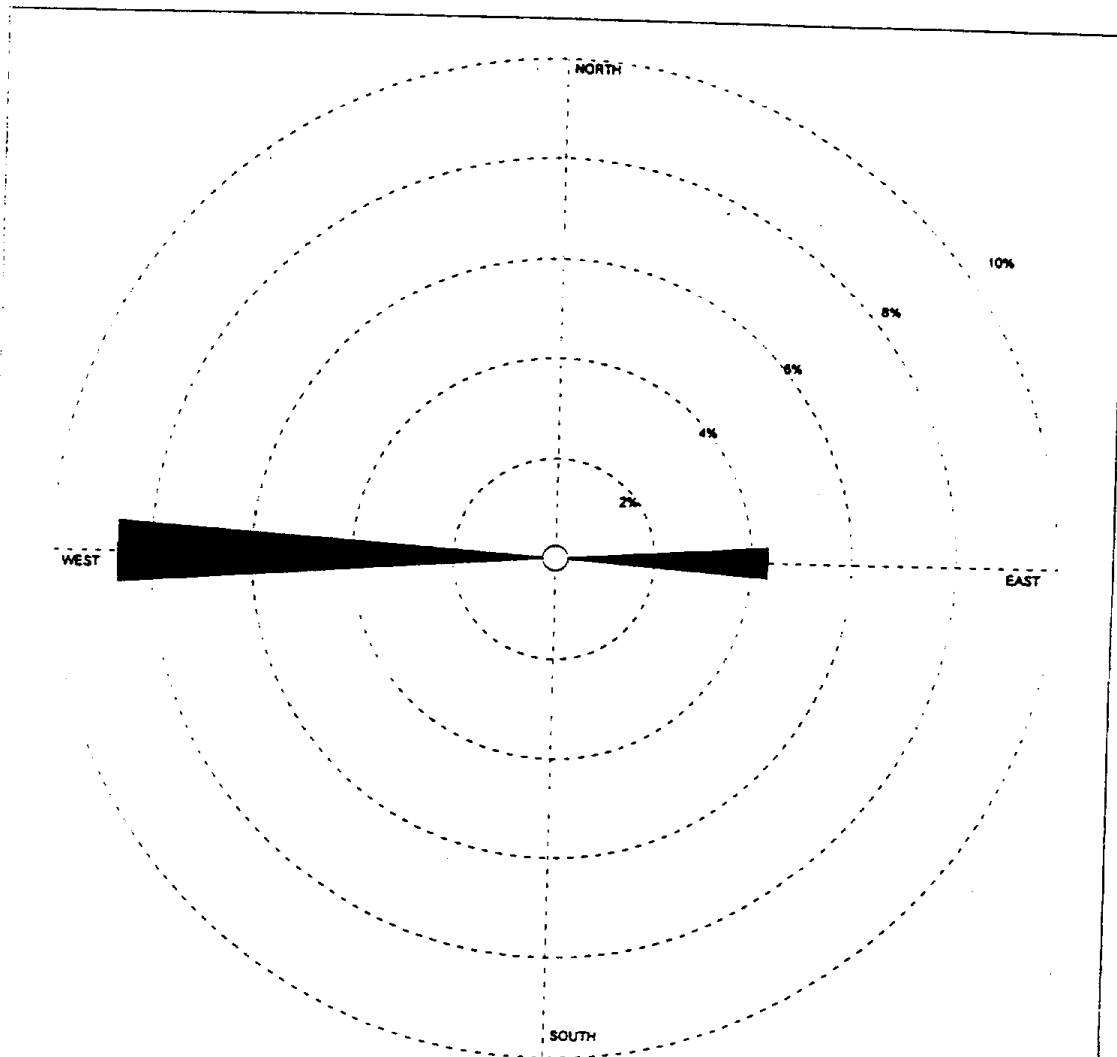
STATION #30000 - Met Station on Ground Next to House



Wind Speed (Knots) 	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	
	AVG. WIND SPEED	CALM WIND	
1 - 3 4 - 6 7 - 10 11 - 16 17 - 21 > 21	1.00 Knots	91.87%	Second Day of Sampling October 21-22, 1998 Start Time 0900 hrs
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO	
	98 October 21 - October 22 Midnight - 11 PM	C-98-063	

WIND ROSE PLOT

STATION #30000 - Met Station on Ground Next to House



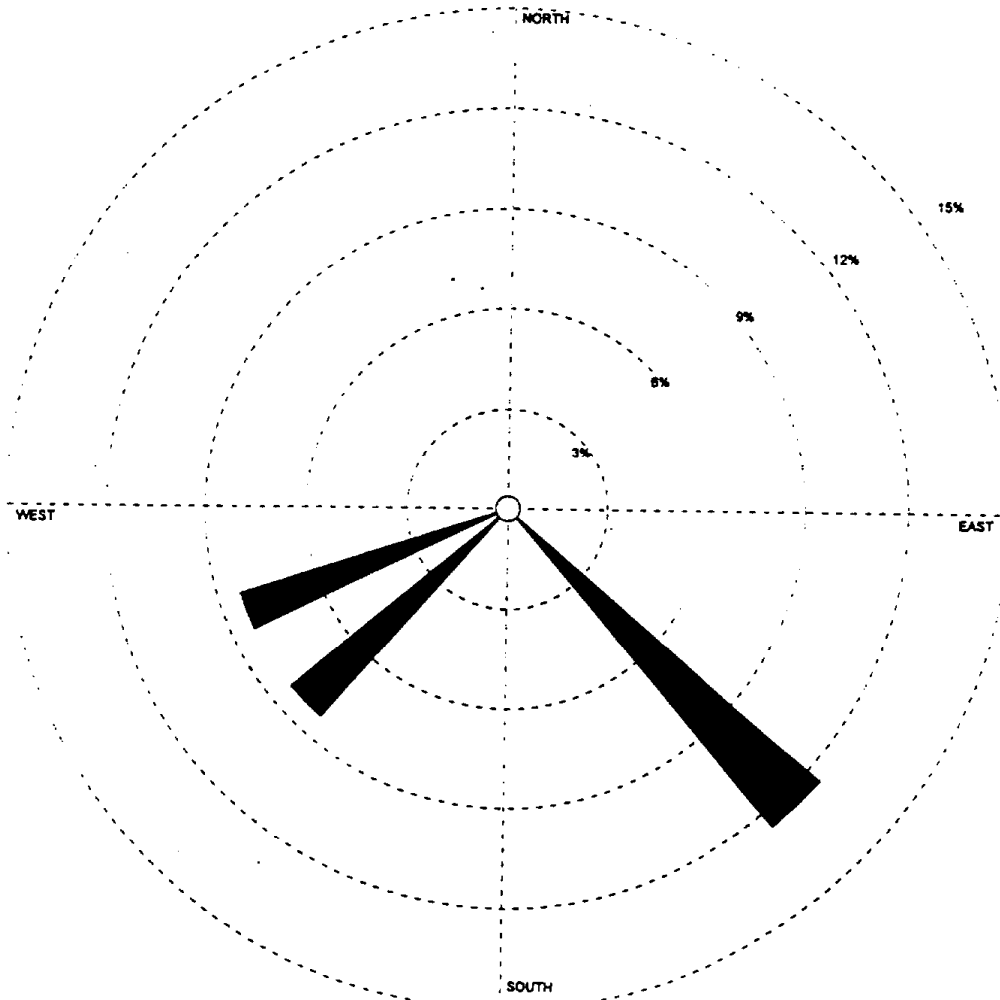
Wind Speed (Knots) 	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	AVG. WIND SPEED	CALM WIND	
	ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.

> 21	Wind Speed	Knots	First Day of Sampling October 20-21, 1998 Start Time 0900 hrs
17 - 21	1.00 Knots	88.96%	
11 - 16	Direction (blowing from)	98 October 20 - October 21 Midnight - 11 PM	
7 - 10			

4 - 8			
1 - 3			
			C-98-063

WIND ROSE PLOT

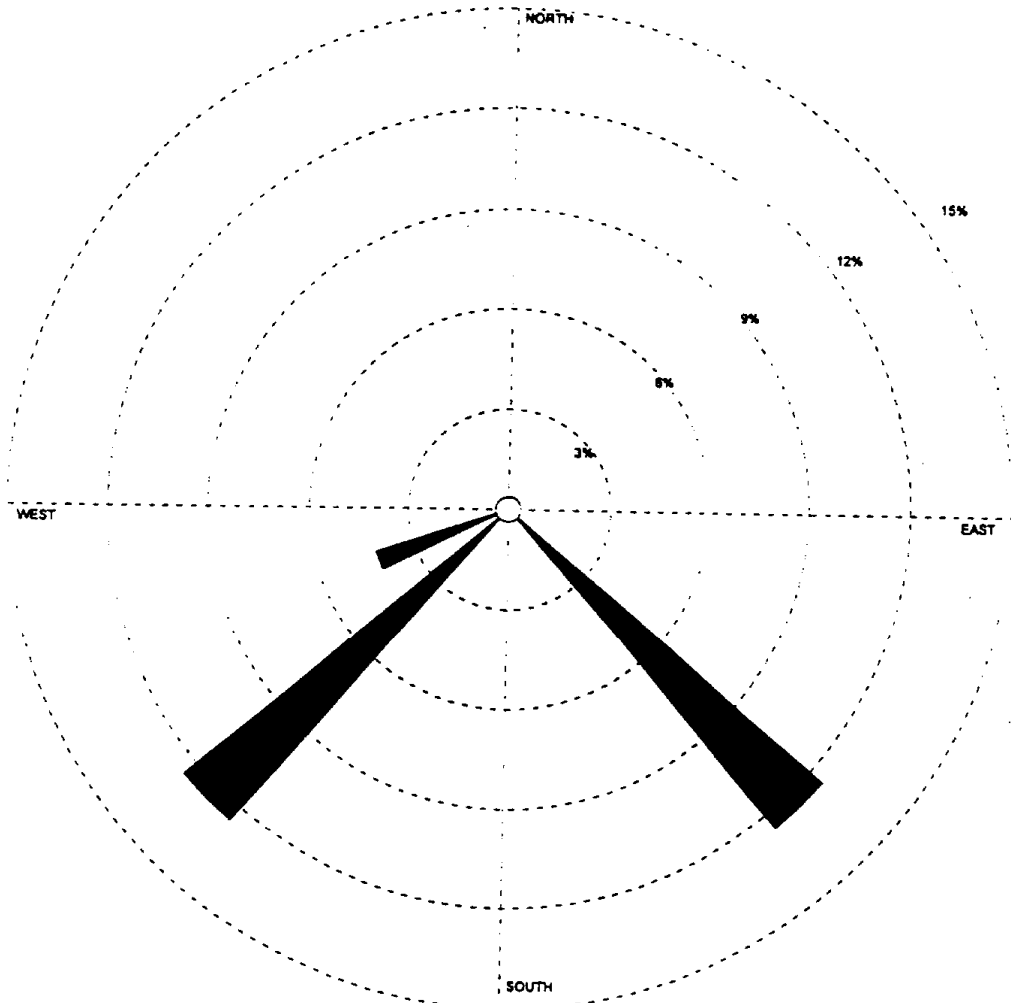
STATION #20000 - , Met Station on Roof of Fire Station in Douglas City



Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
		3/29/99	
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Third Day of Sampling October 22-23, 1998 Start Time 1200 hrs
	AVG. WIND SPEED	CALM WINDS	
	1.71 Knots	70.83%	
	ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.
	Direction (blowing from)	98 October 22 - October 23 Midnight - 11 PM	C-98-063

WIND ROSE PLOT

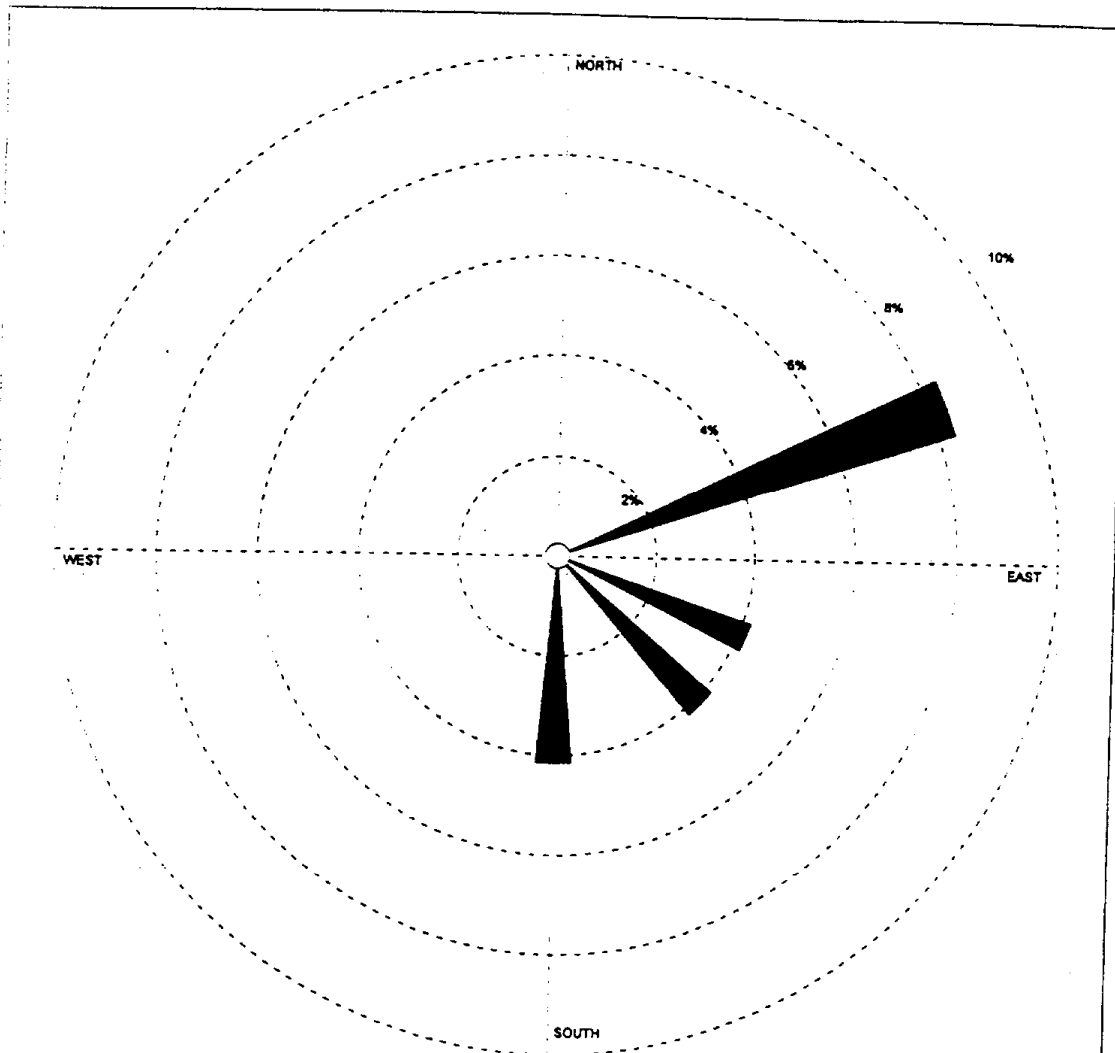
STATION #20000 - Met Station on Roof of Fire Station in Douglas City, CA



Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
		3/29/99	
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Second Day of Sampling October 21-22, 1998 Start Time 1200 hrs
	AVG. WIND SPEED	CALM WINDS	
1.14 Knots	70.83%		
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO	
	98 October 21 - October 22 Midnight - 11 PM	C-98-063	

WIND ROSE PLOT

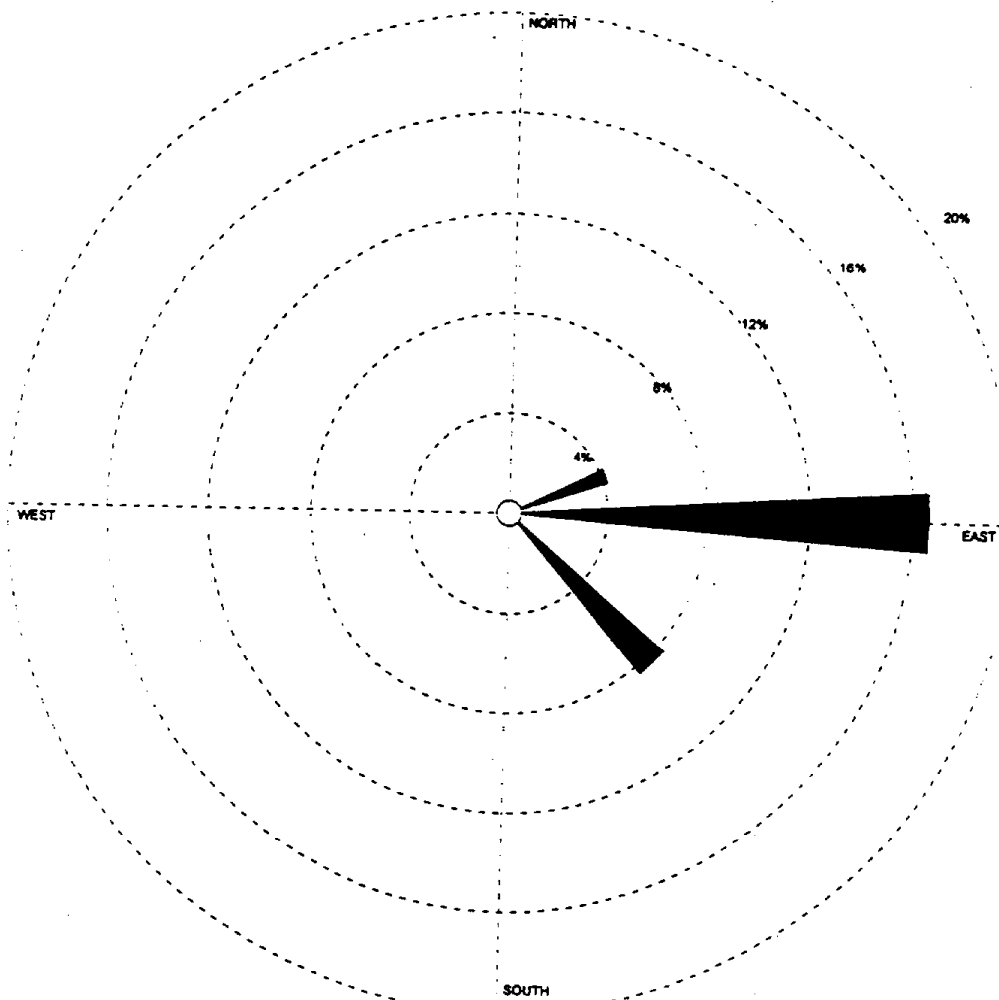
STATION #10000 - Met Station on Roof of Courthouse, Weaverville, CA



Wind Speed (Knots) > 21 17 - 21 11 - 16 7 - 10 4 - 6 1 - 3	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Third Day of Sampling October 22-23, 1998 Start Time 1300 hrs
	AVG. WIND SPEED	CALM WINDS	
	1.40 Knots	79.17%	
ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO	
Direction (blowing from)	98 October 22 - October 23 Midnight - 11 PM	C-98-063	

WIND ROSE PLOT

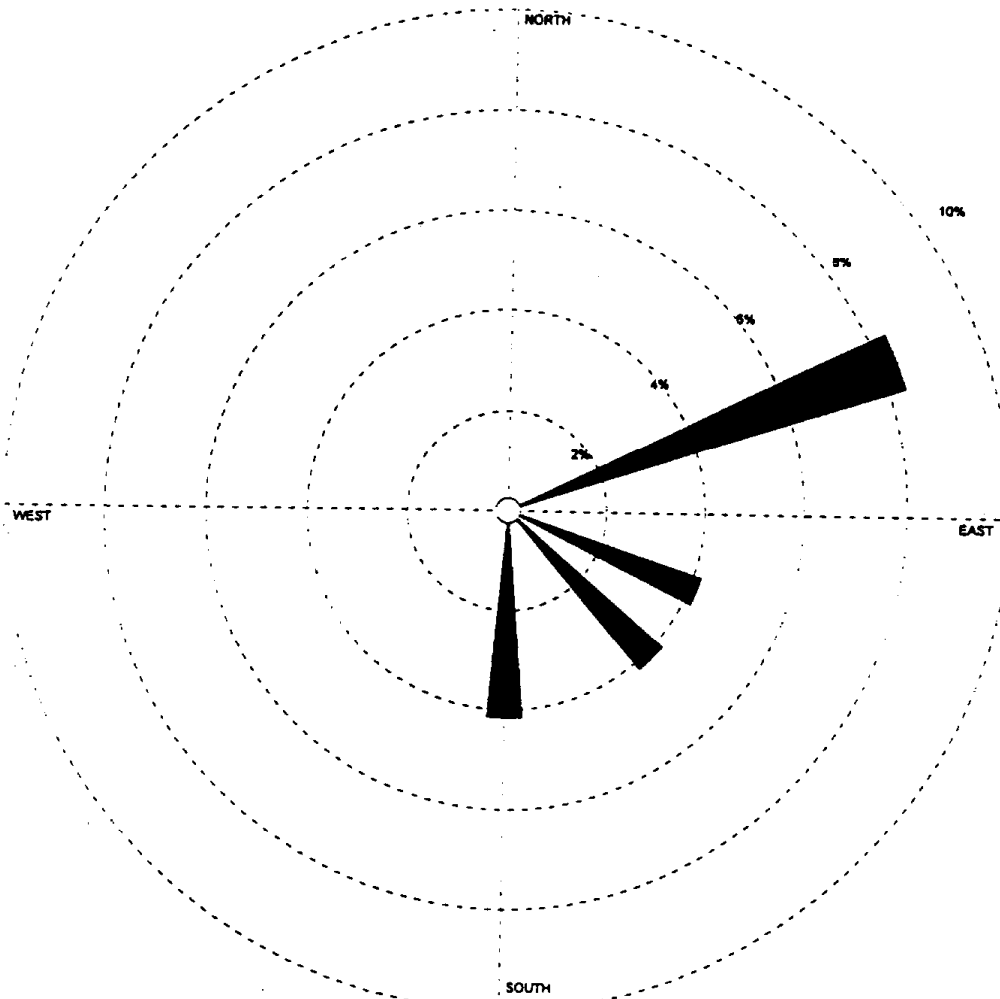
STATION #20000 - , Met Station on Roof of Fire Station in Douglas City



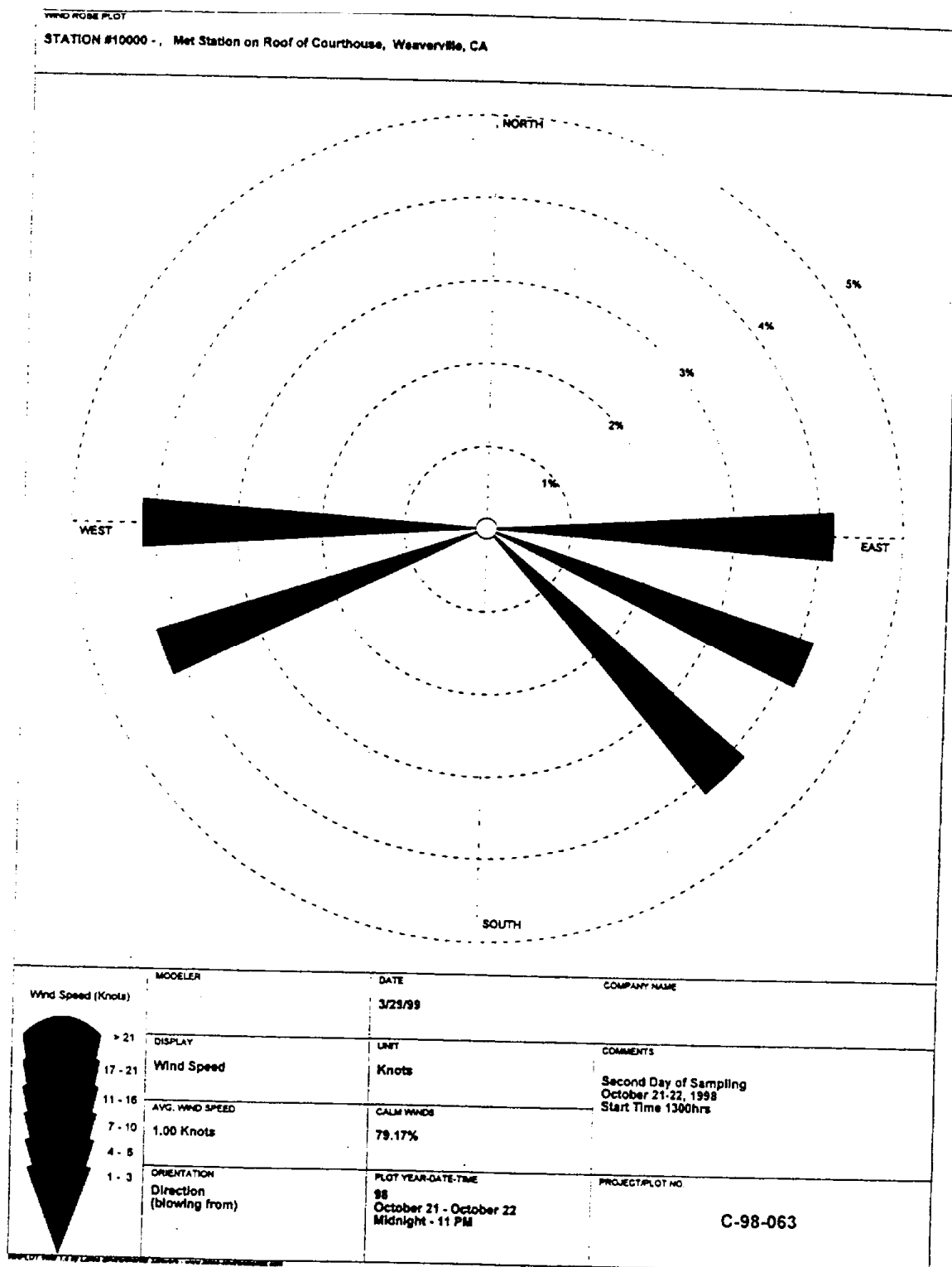
Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	AVG. WIND SPEED	CALM WIND	
	ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.
Wind Speed	Knots	First Day of Sampling October 20-21, 1998 Start Time 1200 hrs	
2.14 Knots	70.83%		
Direction (blowing from)	88 October 20 - October 21 Midnight - 11 PM		C-98-063

WIND ROSE PLOT

STATION #10000 - , Met Station on Roof of Courthouse, Weaverville, CA

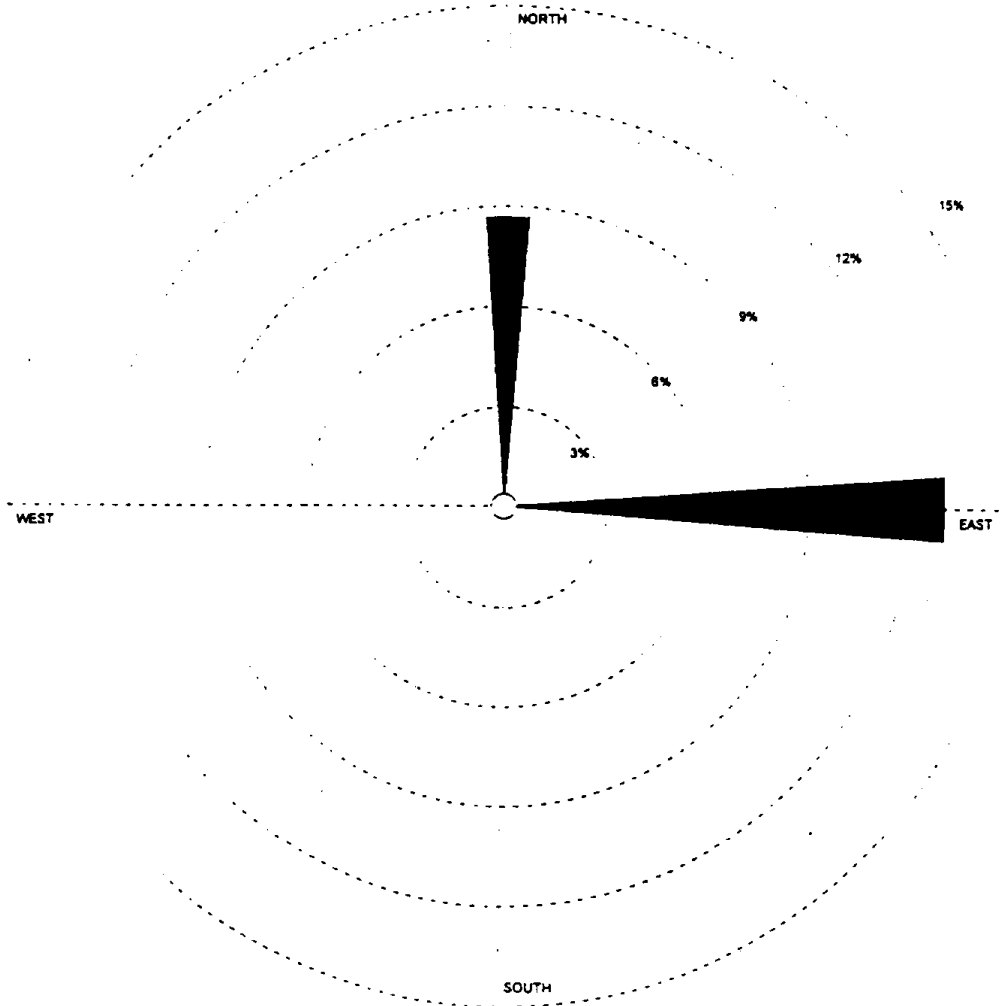


Wind Speed (Knots) > 21 17 - 21 11 - 16 7 - 10 4 - 6 1 - 3	MOODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	Third Day of Sampling October 22-23, 1998 Start Time 1300 hrs
	Avg. Wind Speed	Calm Winds	
	1.40 Knots	78.17%	
	ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.
	Direction (blowing from)	88 October 22 - October 23 Midnight - 11 PM	C-98-063



WIND ROSE PLOT

STATION #10000 - Met Station on Roof of Courthouse, Weaverville, CA

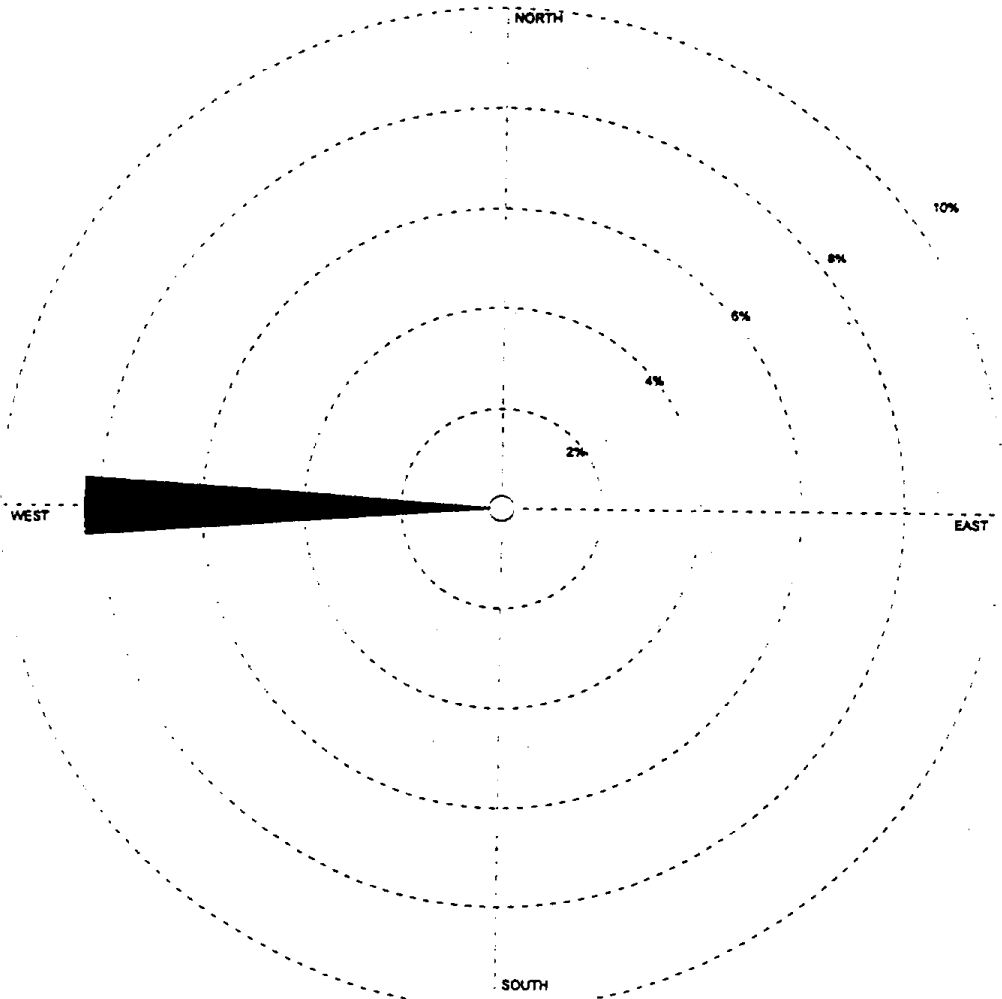


Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	First Day of Sampling October 20 - 21, 1998 Start Time 1300hrs
	AVG. WIND SPEED	CALM WINDS	
	2.60 Knots	78.26%	
ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.	
Direction (blowing from)	98 October 20 - October 21 A	C-98-063	

WINDPLOT Ver 1.1 by Lotus Environmental Software - www.lotusenvironmental.com

WIND ROSE PLOT

STATION #60000 - Met Station On Telephone Pole Next to Trailer



Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
	DISPLAY	UNIT	COMMENTS
	Wind Speed	Knots	
	AVG. WIND SPEED	CALM WINDS	
	11 - 15	1.00 Knots	91.67%
7 - 10	ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO
4 - 6	Direction (blowing from)	98 October 22 - October 23 Midnight - 11 PM	C-98-063
1 - 3			

ATTACHMENT 4
RJ Lee Results

RJ Lee Group, Inc.

530 McCormick St. • San Leandro, CA 94577
(510) 567-0480 • FAX (510) 567-0488

March 10, 1999

Mr. George Lew
California Air Resources Board
Engineering & Laboratory Branch
600 North Market Blvd
Sacramento, CA 95834

RE: TEM Asbestos Analysis Results for Samples as Shown on Test Report & Table II
RJ Lee Group Job No.: ATC902247
Customer Project No.: C-98-063

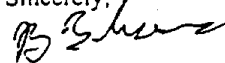
Dear Mr. Lew:

Enclosed are the results from the transmission electron microscopy (TEM) asbestos analysis for your above referenced project using CARB Level III analysis. Test Report lists each sample identification number, filter area, sample volume, area analyzed, structure counts, analytical sensitivity, and the concentration of asbestos. Table II lists the same information as Test Report for structures $\geq 5\mu\text{m}$ in length. Table V lists the 95% confidence limits for the analyses, based on the Poisson distribution. Count sheets are included.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted.

Should you have any questions, please feel free to call.

Sincerely,



Bernard Thomas
Project Manager

BT/sjb
Enclosures

Monroeville, PA • San Leandro, CA • Washington, D.C. • Houston, TX
Chopra-Lee, Inc., Grand Island, NY

Test Report

Total Asbestos Structure Concentration

TEM Level III Analysis

Project ATC902247

RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume † (Liters)	Area (sq mm)	Structures		Analytical Sensitivity † (S/sq. mm)	Concentration (S/sq. mm)	Analysis Date
					Chr	Amp			
1821537CT	TRI-1-WS1-1	385	4441.00	0.0921	3	0	10.9	32.6	3/9/99
1821538CT	TRI-2-WS2-1	385	4318.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821539CT	TRI-3-WSN-1	385	11610.00	0.0921	1	0	10.9	10.9	3/9/99
1821540CT	TRI-4-WSS-1	385	1313.00	0.0921	1	0	10.9	10.9	3/9/99
1821541CT	TRI-5-WH1-1	385	4309.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821542CT	TRI-6-WH2-1	385	4307.00	0.0921	1	0	10.9	10.9	3/9/99
1821543CT	TRI-7-TLR1-1	385	4318.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821544CT	TRI-8-TLR2-1	385	4217.00	0.0921	9	0	10.9	97.8	3/9/99
1821545CT	TRI-9-RA1-1	385	4189.00	0.0921	5	0	10.9	54.3	3/9/99
1821546CT	TRI-10-RA2-1	385	4282.00	0.0921	3	0	10.9	32.6	3/9/99
1821547CT	TRI-11-RAN-1	385	6890.00	0.0921	2	0	10.9	21.7	3/9/99
1821548CT	TRI-12-RAS-1	385	6948.00	0.0921	1	0	10.9	10.9	3/9/99
1821549CT	TRI-13-FS1-1	385	4320.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821550CT	TRI-14-FS2-1	385	4318.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821551CT	TRI-15-CH1-1	385	4297.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821552CT	TRI-16-CH2-1	385	1922.00	0.0921	0	0	10.9	<10.9*	3/9/99

† Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.

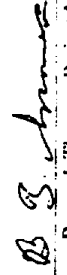
† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Chr - Chrysotile, Amp - Amphibole

Samples received on: Wednesday, February 24, 1999

* Results Less Than Analytical Sensitivity.

N/A - Sample not analyzed.

Authorized Signature  Bernard Thomas, Project Manager

Date

RJ Lee Group, Inc.
Bay Area Lab

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Test Report Page: 1 of 4

Test Report

Total Asbestos Structure Concentration TEM Level III Analysis Project ATC902247

RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume † (Liters)	Area Analyzed (sq mm)	Structures		Analytical Sensitivity † (S/sq. mm)	Concentration		Analysis Date
					Chr	Amp		(S/sq. mm)	(S/cc)	
1821553CT	TRI-17-WS1-2	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821554CT	TRI-18-WS2-2	385	4444.00	0.0921	0	0	10.9	0.0009	<10.9*	3/9/99
1821555CT	TRI-19-WSN-2	385	9741.00	0.0921	0	0	10.9	0.0004	<10.9*	3/9/99
1821556CT	TRI-20-WSS-2	385	2655.00	0.0921	0	0	10.9	0.0016	<10.9*	3/9/99
1821557CT	TRI-21-WH1-2	385	4462.00	0.0921	0	0	10.9	0.0009	<10.9*	3/9/99
1821558CT	TRI-22-WH2-2	385	4462.00	0.0921	0	0	10.9	0.0009	<10.9*	3/9/99
1821559CT	TRI-23-TLR1-2	385	4275.00	0.0921	8	0	10.9	0.0010	86.9	3/9/99
1821560CT	TRI-24-TLR2-2	385	4275.00	0.0921	1	0	10.9	0.0010	10.9	3/9/99
1821561CT	TRI-25-RA1-2	385	4390.00	0.0921	2	0	10.9	0.0010	21.7	3/9/99
1821562CT	TRI-26-RA2-2	385	4318.00	0.0921	9	0	10.9	0.0010	97.8	3/9/99
1821563CT	TRI-27-RAN-2	385	8824.00	0.0921	8	0	10.9	0.0005	86.9	3/9/99
1821564CT	TRI-28-RAS-2	385	3631.00	0.0921	2	0	10.9	0.0012	21.7	3/9/99
1821565CT	TRI-29-FS1-2	385	4234.00	0.0921	1	0	10.9	0.0010	10.9	3/9/99
1821566CT	TRI-30-FS2-2	385	4008.00	0.0921	1	0	10.9	0.0010	10.9	3/9/99
1821567CT	TRI-31-CHI1-2	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821568CT	TRI-32-CH2-2	385	4102.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99

† Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.

† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Chr - Chrysotile, Amp - Amphibole

Samples received on: Wednesday, February 24, 1999

* Results Less Than Analytical Sensitivity.

N/A - Sample not analyzed.

Authorized Signature B. J. Lewis
Bernard Thomas, Project Manager

Date

RJ Lee Group, Inc.
Bay Area Lab

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Test Report Page: 2 of 4

Test Report **Total Asbestos Structure Concentration** **TEM Level III Analysis** **Project ATC902247**

RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume ‡ (Liters)	Area Analyzed (sq mm)	Structures		Analytical Sensitivity † (S/sq. mm)	Concentration		Analysis Date
					Chr	Amp		(S/sq. mm)	(S/cc)	
1821569CT	TRI-33-WS1-3	385	4268.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821570CT	TRI-34-WS2-3	385	4275.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821571CT	TRI-35-WSN-3	385	8908.00	0.0921	0	0	10.9	0.0005	<10.9*	3/9/99
1821572CT	TRI-36-WSS-3	385	1987.00	0.0921	11	0	10.9	0.0021	119.5	3/9/99
1821573CT	TRI-37-WH1-3	385	3323.00	0.0921	0	0	10.9	0.0013	<10.9*	3/9/99
1821574CT	TRI-38-WH2-3	385	4262.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821575CT	TRI-39-TLR1-3	385	4253.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821576CT	TRI-40-TLR2-3	385	4253.00	0.0921	1	0	10.9	0.0010	10.9	3/9/99
1821577CT	TRI-41-RA1-3	385	4289.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821578CT	TRI-42-RA2-3	385	4291.00	0.0921	1	0	10.9	0.0010	10.9	3/9/99
1821579CT	TRI-43-RAN-3	385	7241.00	0.0921	0	0	10.9	0.0006	<10.9*	3/9/99
1821580CT	TRI-44-RAS-3	385	4619.00	0.0921	0	0	10.9	0.0009	<10.9*	3/9/99
1821581CT	TRI-45-FS1-3	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821582CT	TRI-46-FS2-3	385	4282.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821583CT	TRI-47-CH1-3	385	4196.00	0.0921	0	0	10.9	0.0010	<10.9*	3/9/99
1821584CT	TRI-48-CH2-3	385	4253.00	0.0921	1	0	10.9	0.0010	10.9	3/9/99

‡ Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.
† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Chr - Chrysotile, Amp - Amphibole

Samples received on: Wednesday, February 24, 1999

* Results Less Than Analytical Sensitivity.

N/A - Sample not analyzed.

Authorized Signature  Bernard Thomas, Project Manager
Date

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Test Report Page: 3 of 4

Phone (510) 567-0480
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Test Report **Total Asbestos Structure Concentration** **TEM Level III Analysis** **Project ATC902247**

RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume ‡ (Liters)	Area		Structures Chr Amp	Analytical Sensitivity † (S/sq. mm)	Concentration		Analysis Date
				Volume ‡ Analyzed (sq mm)	Chr			(S/sq. mm)	(S/cc)	
1821585CT	TRI-49-BUDS-2	385	4320.00	0.0921	0	0	10.9	<10.9*	<0.0010*	3/9/99
1821586CT	TRI-50-BUDS-1	385	4320.00	0.0921	0	0	10.9	<10.9*	<0.0010*	3/9/99

‡ Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.
† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Chr - Chrysotile, Amp - Amphibole
Samples received on: Wednesday, February 24, 1999
• Results Less Than Analytical Sensitivity.
N/A - Sample not analyzed.

Authorized Signature	
Date	Wednesday, March 10, 1999
Bernard Thomas, Project Manager	

RJ Lee Group, Inc.
Bay Area Lab

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San Leandro, CA 94577
Test Report Page: 4 of 4

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Table II
Asbestos Concentration for Structures ≥ 5 µm in Length
TEM Level III Analysis
Project ATC902247

RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume ‡ (Liters)	Area Analyzed (sq mm)	Structures ≥ 5 µm Chr	Amp	Analytical Sensitivity † (S/sq. mm)	Concentration for Structures ≥ 5 µm (S/sq. mm)	Analysis Date
1821537CT	TRI-1-WS1-1	385	4441.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821538CT	TRI-2-WS2-1	385	4318.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821539CT	TRI-3-WSN-1	385	11610.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821540CT	TRI-4-WSS-1	385	1313.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821541CT	TRI-5-WH1-1	385	4309.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821542CT	TRI-6-WH2-1	385	4307.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821543CT	TRI-7-TLR1-1	385	4318.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821544CT	TRI-8-TLR2-1	385	4217.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821545CT	TRI-9-RA1-1	385	4189.00	0.0921	1	0	10.9	10.9	3/9/99
1821546CT	TRI-10-RA2-1	385	4282.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821547CT	TRI-11-RAN-1	385	6890.00	0.0921	1	0	10.9	10.9	3/9/99
1821548CT	TRI-12-RAS-1	385	6948.00	0.0921	1	0	10.9	10.9	3/9/99
1821549CT	TRI-13-FS1-1	385	4320.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821550CT	TRI-14-FS2-1	385	4318.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821551CT	TRI-15-CHI-1	385	4297.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821552CT	TRI-16-CH2-1	385	1922.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821553CT	TRI-17-WS1-2	385	4318.00	0.0921	0	0	10.9	<10.9*	3/9/99
1821554CT	TRI-18-WS2-2	385	4444.00	0.0921	0	0	10.9	<10.9*	3/9/99

‡ Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.

† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Chr - Chrysotile, Amp - Amphibole

Samples received on: Wednesday, February 24, 1999

* Results Less Than Analytical Sensitivity.

N/A - Sample not analyzed.

Authorized Signature  Bernard Thomas, Project Manager
Date

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Table II Page: 1 of 4

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Table II
Asbestos Concentration for Structures $\geq 5 \mu\text{m}$ in Length
TEM Level III Analysis
Project ATC902247

RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume † (Liters)	Area Analyzed (sq mm)	Structures $\geq 5 \mu\text{m}$ Chr Amp	Analytical Sensitivity † (S/sq. mm) (S/cc)	Concentration for Structures $\geq 5 \mu\text{m}$ (S/sq. mm) (S/cc)	Analysis Date
1821555CT	TRI-19-WSN-2	385	9741.00	0.0921	0	10.9	<10.9*	3/9/99
1821556CT	TRI-20-WSS-2	385	2655.00	0.0921	0	10.9	<10.9*	3/9/99
1821557CT	TRI-21-WHI-2	385	4462.00	0.0921	0	10.9	<10.9*	3/9/99
1821558CT	TRI-22-WH2-2	385	4462.00	0.0921	0	10.9	<10.9*	3/9/99
1821559CT	TRI-23-TLR1-2	385	4275.00	0.0921	0	10.9	<10.9*	3/9/99
1821560CT	TRI-24-TLR2-2	385	4275.00	0.0921	0	10.9	<10.9*	3/9/99
1821561CT	TRI-25-RA1-2	385	4390.00	0.0921	0	10.9	<10.9*	3/9/99
1821562CT	TRI-26-RA2-2	385	4318.00	0.0921	0	10.9	<10.9*	3/9/99
1821563CT	TRI-27-RAN-2	385	8824.00	0.0921	2	10.9	<10.9*	3/9/99
1821564CT	TRI-28-RAS-2	385	3631.00	0.0921	0	10.9	21.7	3/9/99
1821565CT	TRI-29-FS1-2	385	4234.00	0.0921	0	10.9	<10.9*	3/9/99
1821566CT	TRI-30-FS2-2	385	4008.00	0.0921	1	10.9	<10.9*	3/9/99
1821567CT	TRI-31-CHI-2	385	4318.00	0.0921	0	10.9	10.9	3/9/99
1821568CT	TRI-32-CH2-2	385	4102.00	0.0921	0	10.9	<10.9*	3/9/99
1821569CT	TRI-33-WS1-3	385	4268.00	0.0921	0	10.9	<10.9*	3/9/99
1821570CT	TRI-34-WS2-3	385	4275.00	0.0921	0	10.9	<10.9*	3/9/99
1821571CT	TRI-35-WSN-3	385	8908.00	0.0921	0	10.9	<10.9*	3/9/99
1821572CT	TRI-36-WSS-3	385	1987.00	0.0921	0	10.9	<10.9*	3/9/99

† Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.
† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Chr - Chrysotile, Amp - Amphibole
Samples received on: Wednesday, February 24, 1999
* Results Less Than Analytical Sensitivity.
N/A - Sample not analyzed.

Authorized Signature B. Thomas Date _____
Bernard Thomas, Project Manager

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577
Table II Page: 2 of 4

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TABLE II

Asbestos Concentration for Structures $\geq 5 \mu\text{m}$ in Length TEM Level III Analysis

Project ATC902247

RJ Lee Group Sample Number	Client Sample Number	Filter Area (sq mm)	Volume † (Liters)	Area Analyzed (sq mm)	Structures $\geq 5 \mu\text{m}$ Chr Amp	Analytical Sensitivity † (S/sq. mm)	Concentration for Structures $\geq 5 \mu\text{m}$ (S/sq. mm)	Analysis Date
1821573CT	TRI-37-WH1-3	385	3323.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821574CT	TRI-38-WH2-3	385	4262.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821575CT	TRI-39-TLR1-3	385	4253.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821576CT	TRI-40-TLR2-3	385	4253.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821577CT	TRI-41-RA1-3	385	4289.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821578CT	TRI-42-RA2-3	385	4291.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821579CT	TRI-43-RAN-3	385	7241.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821580CT	TRI-44-RAS-3	385	4619.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821581CT	TRI-45-FS1-3	385	4318.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821582CT	TRI-46-FS2-3	385	4282.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821583CT	TRI-47-CHI-3	385	4196.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821584CT	TRI-48-CH2-3	385	4253.00	0.0921	1 0	10.9	10.9	3/9/99
1821585CT	TRI-49-BUDS-2	385	4320.00	0.0921	0 0	10.9	<10.9*	3/9/99
1821586CT	TRI-50-BUDS-1	385	4320.00	0.0921	0 0	10.9	<10.9*	3/9/99

† Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.

† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Chr - Chrysotile, Amp - Amphibole

Samples received on: Wednesday, February 24, 1999

* Results Less Than Analytical Sensitivity.

N/A - Sample not analyzed.

Authorized Signature B. Thomas Date _____
Bernard Thomas, Project Manager

RJ Lee Group, Inc.
Bay Area Lab

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Table II Page: 3 of 4

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Table V
Total Poisson Asbestos Concentrations
TEM Level III Analysis
Project ATC902247

Sample Number	Client Sample Number	Actual Counts	Poisson Range		Lower Concentration Bounds ‡ S/sq mm	Upper Concentration Bounds ‡ S/sq mm	Analysis Date
			Lower	Upper			
1821537CT	TRI-1-WS1-1	3	1	9	10.86	0.0009	0.0085
1821538CT	TRI-2-WS2-1	0	0	4	<10.86*	<0.0010*	0.0039
1821539CT	TRI-3-WSN-1	1	0	6	0.00	0.0000	0.0022
1821540CT	TRI-4-WSS-1	1	0	6	0.00	0.0000	0.0191
1821541CT	TRI-5-WH1-1	0	0	4	<10.86*	<0.0010*	0.0039
1821542CT	TRI-6-WH2-1	1	0	6	0.00	0.0000	0.0058
1821543CT	TRI-7-TLR1-1	0	0	4	<10.86*	<0.0010*	0.0039
1821544CT	TRI-8-TLR2-1	9	4	17	43.45	0.0040	0.0169
1821545CT	TRI-9-RA1-1	5	2	12	21.73	0.0020	0.0120
1821546CT	TRI-10-RA2-1	3	1	9	10.86	0.0010	0.0088
1821547CT	TRI-11-RAN-1	2	0	7	0.00	0.0000	0.0042
1821548CT	TRI-12-RAS-1	1	0	6	0.00	0.0000	0.0036
1821549CT	TRI-13-FS1-1	0	0	4	<10.86*	<0.0010*	0.0039
1821550CT	TRI-14-FS2-1	0	0	4	<10.86*	<0.0010*	0.0039
1821551CT	TRI-15-CHI-1	0	0	4	<10.86*	<0.0010*	0.0039
1821552CT	TRI-16-CH2-1	0	0	4	<10.86*	<0.0022*	0.0087
1821553CT	TRI-17-WS1-2	0	0	4	<10.86*	<0.0010*	0.0039
1821554CT	TRI-18-WS2-2	0	0	4	<10.86*	<0.0009*	0.0038
1821555CT	TRI-19-WSN-2	0	0	4	<10.86*	<0.0004*	0.0017
1821556CT	TRI-20-WSS-2	0	0	4	<10.86*	<0.0016*	0.0063

‡ Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.

† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Samples received on: Wednesday, February 24, 1999

Chr - Chrysotile, Amp - Amphibole

N/A - Sample not analyzed.

Authorized Signature

B. Thomas

Bernard Thomas, Project Manager

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Table V Page: 1 of 4

Phone (510) 567-0480
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Table V
Total Poisson Asbestos Concentrations
TEM Level III Analysis
Project ATC902247

Sample Number	Client Sample Number	Actual Counts	Poisson Range Lower Upper	Lower Concentration S/sq mm	Upper Concentration S/sq mm	Bounds † S/cc	Analysis Date
1821557CT	TRI-21-WH1-2	0	0 4	<10.86*	43.45	0.0037	3/9/99
1821558CT	TRI-22-WH2-2	0	0 4	<10.86*	43.45	0.0037	3/9/99
1821559CT	TRI-23-TLR1-2	8	3 16	32.59	173.80	0.0157	3/9/99
1821560CT	TRI-24-TLR2-2	1	0 6	0.00	65.18	0.0059	3/9/99
1821561CT	TRI-25-RA1-2	2	0 7	0.00	76.04	0.0067	3/9/99
1821562CT	TRI-26-RA2-2	9	4 17	43.45	184.66	0.0165	3/9/99
1821563CT	TRI-27-RAN-2	8	3 16	32.59	173.80	0.0076	3/9/99
1821564CT	TRI-28-RAS-2	2	0 7	0.00	76.04	0.0081	3/9/99
1821565CT	TRI-29-FS1-2	1	0 6	0.00	65.18	0.0059	3/9/99
1821566CT	TRI-30-FS2-2	1	0 6	0.00	65.18	0.0063	3/9/99
1821567CT	TRI-31-CH1-2	0	0 4	<10.86*	43.45	0.0039	3/9/99
1821568CT	TRI-32-CH2-2	0	0 4	<10.86*	43.45	0.0041	3/9/99
1821569CT	TRI-33-WS1-3	0	0 4	<10.86*	43.45	0.0039	3/9/99
1821570CT	TRI-34-WS2-3	0	0 4	<10.86*	43.45	0.0039	3/9/99
1821571CT	TRI-35-WSN-3	0	0 4	<10.86*	43.45	0.0039	3/9/99
1821572CT	TRI-36-WSS-3	11	5 20	54.31	217.25	0.0421	3/9/99
1821573CT	TRI-37-WH1-3	0	0 4	<10.86*	43.45	0.0050	3/9/99
1821574CT	TRI-38-WH2-3	0	0 4	<10.86*	43.45	0.0039	3/9/99
1821575CT	TRI-39-TLR1-3	0	0 4	<10.86*	43.45	0.0039	3/9/99
1821576CT	TRI-40-TLR2-3	1	0 6	0.00	65.18	0.0059	3/9/99

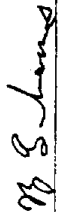
‡ Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.

† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Samples received on: Wednesday, February 24, 1999

Chr - Chrysotile, Amp - Amphibole

N/A - Sample not analyzed.

Authorized Signature  Bernard Thomas, Project Manager

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Table V Page: 2 of 4

Phone (510) 567-0480
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Table V
Total Poisson Asbestos Concentrations
TEM Level III Analysis
Project ATC902247

Sample Number	Client Sample Number	Actual Counts	Poisson Range		Lower Concentration Bounds ‡		Upper Concentration Bounds ‡		Analysis Date
			Lower	Upper	S/sq mm	S/cc	S/sq mm	S/cc	
1821577CT	TRI-41-RA1-3	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821578CT	TRI-42-RA2-3	1	0	6	0.00	0.0000	65.18	0.0058	3/9/99
1821579CT	TRI-43-RAN-3	0	0	4	<10.86*	<0.0006*	43.45	0.0023	3/9/99
1821580CT	TRI-44-RAS-3	0	0	4	<10.86*	<0.0009*	43.45	0.0036	3/9/99
1821581CT	TRI-45-FS1-3	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821582CT	TRI-46-FS2-3	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821583CT	TRI-47-CHI-3	0	0	4	<10.86*	<0.0010*	43.45	0.0040	3/9/99
1821584CT	TRI-48-CH2-3	1	0	6	0.00	0.0000	65.18	0.0059	3/9/99
1821585CT	TRI-49-BUDS-2	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821586CT	TRI-50-BUDS-1	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99

‡ Volumes provided by California Air Resources Board for Project C-98-063 were used to calculate analytical results and sensitivities.

† Analytical sensitivity is the calculated concentration based on one structure in the area analyzed.

Samples received on: Wednesday, February 24, 1999

Chr - Chrysotile, Amp - Amphibole

N/A - Sample not analyzed.

Authorized Signature  Bernard Thomas, Project Manager

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Table V Page: 3 of 4

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821537CT
Client Sample # TRI-1-WS1-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000X
Analyst YZ
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 3
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4441.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	0.90	0.12	Chrysotile	BM			0486		
1	2	0.40	0.10	Chrysotile				X		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	1	1.40	0.10	Chrysotile	M			X		
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821538CT
Client Sample # TRI-2-WS2-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4318.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821539CT
Client Sample # TRI-3-WSN-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 11610.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	2.70	0.40	Chrysotile	B			X		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821541CT
Client Sample # TRI-5-WH1-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4309.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	15.00	1.00	Unknown				X		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821540CT
Client Sample # TRI-4-WSS-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 1313.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	1	1.00	0.13	Chrysotile	B			X	0488	
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821541CT
Client Sample # TRI-5-WH1-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4309.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	15.00	1.00	Unknown				X		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ LeeGroup , Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821542CT
Client Sample # TRI-6-WH2-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4307.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	1	1.00	0.05	Chrysotile	M1			X		
9	0			NSD						
10	1	0.75	0.15	Ambiguous	M1			X		

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
 Project Number ATC902247
 RJI Sample # 1821543CT
 Client Sample # TRI-7-TLR1-1
 Microscope 1200 EX
 Accelerating Volt 100 Kv
 Magnification 20000 X
 Analyst MB
 EDS Disk

RJI QA Number CQ12941
 Grid Openings 10
 Total Asbestos 0
 Total Non-Asbestos 0
 Filter CE 385 mm²
 Volume 4318.0 Liters
 Grid Opening Area 0.0092 mm²
 Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821544CT
Client Sample # TRI-8-TLR2-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 9
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4217.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	1	1.50	0.15	Nonasbestos M						
5	0			NSD						
6	0			NSD						
7	1	4.00	0.30	Chrysotile	B			X		
8	0			NSD						
9	1	0.50	0.05	Chrysotile				X		
9	2	0.75	0.03	Chrysotile				X		
9	3	0.50	0.10	Chrysotile				X		
9	4	0.70	0.04	Chrysotile				X		
9	5	3.50	0.07	Chrysotile				X		
9	6	2.25	0.05	Chrysotile				X		
9	7	2.20	0.50	Chrysotile				X		
9	8	0.50	0.10	Chrysotile				X		
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821545CT
Client Sample # TRI-9-RA1-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000X
Analyst MB
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 5
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4189.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	1	1.00	0.10	Chrysotile				X		
7	1	9.00	0.15	Nonasbestos						
7	2	2.75	0.05	Chrysotile				X		
8	1	2.25	0.50	Chrysotile				X		
8	2	6.50	0.75	Chrysotile	B			X		
8	3	3.50	0.25	Chrysotile	B			X		
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821546CT
Client Sample # TRI-10-RA2-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 3
Total Non-Asbestos 2
Filter CE 385 mm²
Volume 4282.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	1	2.20	0.10	Chrysotile	M			X		
3	0			NSD						
4	0			NSD						
5	1	1.50	0.10	Ambiguous	M2					
5	2	2.80	0.25	Chrysotile	BM			X		
6	0			NSD						
7	1	2.10	0.15	Chrysotile				0488		
8	1	3.70	0.10	Ambiguous	M					
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ LeeGroup, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821547CT
Client Sample # TRI-11-RAN-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 2
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 6890.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	1	1.00	0.12	Chrysotile	BM			X		
5	0			NSD						
6	1	6.50	0.50	Chrysotile	BM			X		
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	1	0.60	0.10	Ambiguous	M					

NSD - No Structures Detected

RJ LeeGroup , Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821548CT
Client Sample # TRI-12-RAS-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 6948.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	1	6.20	0.80	Chrysotile	BM			0489		
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821549CT
Client Sample # TRI-13-FS1-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12941
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4320.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821550CT
Client Sample # TRI-14-FS2-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4318.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ LeeGroup , Inc
Count Sheet

Client Name California Air Resources Board
 Project Number ATC902247
 RJL Sample # 1821551CT
 Client Sample # TRI-15-CH1-1
 Microscope 1200 EX
 Accelerating Volt 100 Kv
 Magnification 20000 X
 Analyst YZ
 EDS Disk

RJL QA Number CQ12942
 Grid Openings 10
 Total Asbestos 0
 Total Non-Asbestos 0
 Filter CE 385 mm²
 Volume 4297.0 Liters
 Grid Opening Area 0.0092 mm²
 Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821551CT
Client Sample # TRI-15-CH1-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4297.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821552CT
Client Sample # TRI-16-CH2-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 1922.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
 Project Number ATC902247
 R/L Sample # 1821553CT
 Client Sample # TRI-17-WS1-2
 Microscope 1200 EX
 Accelerating Volt 100 Kv
 Magnification 20000 X
 Analyst YZ
 EDS Disk

R/L QA Number CQ12942
 Grid Openings 10
 Total Asbestos 0
 Total Non-Asbestos 0
 Filter CE 385 mm²
 Volume 4318.0 Liters
 Grid Opening Area 0.0092 mm²
 Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821555CT
Client Sample # TRI-19-WSN-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 9741.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821556CT
Client Sample # TRI-20-WSS-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 2655.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821557CT
Client Sample # TRI-21-WH1-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4462.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ LeeGroup, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821558CT
Client Sample # TRI-22-WH2-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4462.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821559CT
Client Sample # TRI-23-TLR1-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 8
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4275.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	1	3.20	0.12	Chrysotile	BM			0492		
3	1	1.50	0.10	Ambiguous	M					
3	2	0.60	0.14	Chrysotile	B			X		
3	3	0.80	0.10	Chrysotile	M			X		
3	4	0.60	0.10	Chrysotile				X		
3	5	0.80	0.10	Chrysotile				X		
3	6	2.70	0.12	Chrysotile	BM			X		
3	7	0.90	0.14	Chrysotile	BM			X		
3	8	0.75	0.14	Chrysotile	BCM			X		
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821560CT
Client Sample # TRI-24-TLR2-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4275.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	1	2.90	0.12	Chrysotile	BM1			0493		
10	2	0.75	0.10	Ambiguous	M1					

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821561CT
Client Sample # TRI-25-RA1-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 2
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4390.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	1	2.00	0.10	Chrysotile	M1			X		
7	2	0.80	0.13	Chrysotile	B			X		
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821562CT
Client Sample # TRI-26-RA2-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12942
Grid Openings 10
Total Asbestos 9
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4318.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	1.20	0.10	Chrysotile	M2			0494		
1	2	1.70	0.10	Chrysotile	M1			X		
2	1	2.00	0.12	Ambiguous	BM					
3	0			NSD						
4	1	2.00	0.12	Chrysotile	BM			X		
5	1	1.00	0.10	Chrysotile	M			X		
6	0			NSD						
7	1	3.50	0.25	Chrysotile	BM			X		
8	1	3.00	0.30	Chrysotile	BCM			X		
8	2	3.00	0.40	Chrysotile	BCM			X		
9	0			NSD						
10	1	2.70	0.25	Chrysotile	BM			X		
10	2	3.50	0.50	Chrysotile	BM			X		

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821563CT
Client Sample # TRI-27-RAN-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 8
Total Non-Asbestos 2
Filter CE 385 mm²
Volume 8824.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	5.00	1.00	Chrysotile	B			X		
2	1	0.60	0.06	Chrysotile	M1			X		
3	1	1.25	0.05	Nonasbestos	M1			X		
3	2	1.50	0.07	Chrysotile	M1			X		
4	0			NSD						
5	1	15.00	1.00	Chrysotile	BM			X		
6	0			NSD						
7	1	1.75	0.06	Nonasbestos	M			X		
7	2	2.00	0.15	Chrysotile	M			X		
8	1	0.75	0.18	Chrysotile	M1			X		
8	2	0.50	0.04	Chrysotile	M			X		
9	1	3.00	0.35	Chrysotile	BM			X		
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821564CT
Client Sample # TRI-28-RAS-2
Microscope I200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 2
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 3631.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	3.00	0.20	Chrysotile	M2			X		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	1	0.80	0.05	Chrysotile	M1			X		
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821565CT
Client Sample # TRI-29-FS1-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4234.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	2.75	0.25	Chrysotile	BM			X		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821566CT
Client Sample # TRI-30-FS2-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4008.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	1	20.00	1.25	Chrysotile	BM			X		
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	1	15.00	1.50	Nonasbestos				X		

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821567CT
Client Sample # TRI-31-CH1-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter ' CE 385 mm²
Volume 4318.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
 Project Number ATC902247
 RJI Sample # 1821568CT
 Client Sample # TRI-32-CH2-2
 Microscope 1200 EX
 Accelerating Volt 100 Kv
 Magnification 20000 X
 Analyst MB
 EDS Disk

RJI QA Number CQ12943
 Grid Openings 10
 Total Asbestos 0
 Total Non-Asbestos 0
 Filter CE 385 mm²
 Volume 4102.0 Liters
 Grid Opening Area 0.0092 mm²
 Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821569CT
Client Sample # TRI-33-WS1-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4268.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ LeeGroup , Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821570CT
Client Sample # TRI-34-WS2-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4275.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821571CT
Client Sample # TRI-35-WSN-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 8908.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821572CT
Client Sample # TRI-36-WSS-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 11
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 1987.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	1.50	0.20	Chrysotile	M2			X		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	1	0.80	0.04	Chrysotile				X		
5	2	0.70	0.03	Chrysotile				X		
5	3	0.50	0.04	Chrysotile				X		
5	4	0.50	0.04	Chrysotile				X		
5	5	0.65	0.05	Chrysotile				X		
5	6	0.40	0.05	Chrysotile				X		
5	7	0.40	0.04	Chrysotile				X		
5	8	3.00	0.04	Chrysotile				X		
5	9	0.50	0.05	Chrysotile				X		
5	10	0.45	0.04	Chrysotile				X		
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821573CT
Client Sample # TRI-37-WH1-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 3
Filter CE 385 mm²
Volume 3323.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	0.75	0.08	Nonasbestos				X		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	1	0.70	0.09	Nonasbestos M1				X		
6	0			NSD						
7	0			NSD						
8	1	0.90	0.15	Nonasbestos M2						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821574CT
Client Sample # TRI-38-WH2-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst MB
EDS Disk

RJL QA Number CQ12943
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4262.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
 Project Number ATC902247
 RJL Sample # 1821575CT
 Client Sample # TRI-39-TLR1-3
 Microscope 1200 EX
 Accelerating Volt 100 Kv
 Magnification 20000 X
 Analyst MB
 EDS Disk

RJL QA Number CQ12943
 Grid Openings 10
 Total Asbestos 0
 Total Non-Asbestos 2
 Filter CE 385 mm²
 Volume 4253.0 Liters
 Grid Opening Area 0.0092 mm²
 Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	1.00	0.05	Ambiguous				FAINT		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	1	1.20	0.18	Nonasbestos				X		
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821576CT
Client Sample # TRI-40-TLR2-3
Microscope I200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4253.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	1	1.20	0.10	Ambiguous	M1					
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	1	3.90	0.50	Chrysotile	BM			0498		

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821577CT
Client Sample # TRI-41-RA1-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4289.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821578CT
Client Sample # TRI-42-RA2-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4291.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	1	0.75	0.10	Nonasbestos M1						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	1	1.00	0.12	Chrysotile B				X		

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821579CT
Client Sample # TRI-43-RAN-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 7241.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
 Project Number ATC902247
 RJL Sample # 1821580CT
 Client Sample # TRI-44-RAS-3
 Microscope 1200 EX
 Accelerating Volt 100 Kv
 Magnification 20000 X
 Analyst YZ
 EDS Disk

RJL QA Number CQ12944
 Grid Openings 10
 Total Asbestos 0
 Total Non-Asbestos 0
 Filter CE 385 mm²
 Volume 4619.0 Liters
 Grid Opening Area 0.0092 mm²
 Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
 Project Number ATC902247
 RJL Sample # 1821581CT
 Client Sample # TRI-45-FS1-3
 Microscope 1200 EX
 Accelerating Volt 100 Kv
 Magnification 20000 X
 Analyst YZ
 EDS Disk

RJL QA Number CQ12944
 Grid Openings 10
 Total Asbestos 0
 Total Non-Asbestos 0
 Filter CE 385 mm²
 Volume 4318.0 Liters
 Grid Opening Area 0.0092 mm²
 Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821582CT
Client Sample # TRI-46-FS2-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 1
Filter CE 385 mm²
Volume 4282.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	1	2.50	0.24	Ambiguous	BM					

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821583CT
Client Sample # TRI-47-CH1-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4196.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821585CT
Client Sample # TRI-49-BUDS-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4320.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821584CT
Client Sample # TRI-48-CH2-3
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 1
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4253.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	1	12.00	0.45	Chrysotile	BCM			X		
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821585CT
Client Sample # TRI-49-BUDS-2
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4320.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee Group, Inc
Count Sheet

Client Name California Air Resources Board
Project Number ATC902247
RJL Sample # 1821586CT
Client Sample # TRI-50-BUDS-1
Microscope 1200 EX
Accelerating Volt 100 Kv
Magnification 20000 X
Analyst YZ
EDS Disk

RJL QA Number CQ12944
Grid Openings 10
Total Asbestos 0
Total Non-Asbestos 0
Filter CE 385 mm²
Volume 4320.0 Liters
Grid Opening Area 0.0092 mm²
Dilution Factor 1

Field	Fiber	Length μm	Width μm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected



Peter M. Rooney
Secretary for
Environmental
Protection

Air Resources Board

Barbara Riordan, Chairman
P.O. Box 2815 · 2020 L Street · Sacramento, California 95812 · www.arb.ca.gov



Pete Wilson
Governor

February 23, 1999

Kyle Bishop
Regional Sales Manager
RJ Lee Group
530 McCormick St.
San Leandro, CA 94577

Dear Mr. Bishop:

Per our Contract, enclosed are 50 samples for TEM analysis using ARB Level 3 analysis. **I need these samples analyzed within ten working days from receipt by your laboratory.** If you cannot meet this analysis time frame please contact me at (916) 263-2060. Please use the ARB Log # as the sample # in your tracking system.

Please fax the preliminary results to George Lew at (916) 263-2067. The chain of custody must be maintained so keep the samples secure and return them 60 days after analysis. Send the final results along with the completed chain of custody form to:

George Lew, Chief
Engineering and Laboratory Branch
Air Resources Board
P. O. Box 2815
600 North Market Blvd
Sacramento, CA 95814

If you have any questions call me at (916) 263-2060.

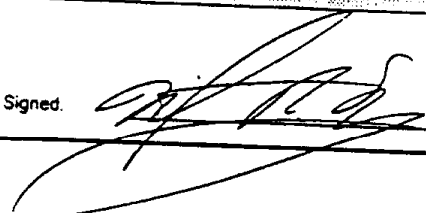
Sincerely,

James E. McCormack
Air Resources Engineer
Monitoring and Laboratory Division

California Environmental Protection Agency
Printed on Recycled Paper

E-6-91

FOR ARB USE ONLY
Chain of Custody Check Off Form

For samples going to RJ Lee Laboratory	
1. Was the correct project # on side 1?	☒ YES ☐ NO
2. Did submitter fill in their name?	☒ YES ☐ NO
3. Were samples listed on side 1 in the sample box? Did the sample # and Log numbers match?	☒ YES ☐ NO
4. Was the ARB portion of the block containing "the chain of custody seal intact information" filled out and signed?	☒ YES ☐ NO
5. Was the ARB portion of the block containing "the chain of custody transfer information" filled out and signed?	☒ YES ☐ NO
Witness Signature and Date Signed.  2-23-99	

For samples returning from RJ Lee Laboratory	
1. Was the RJ Lee Laboratory portion of the block containing "the chain of custody seal intact information" filled out and signed?	YES ☐ NO ☐
2. Was the RJ Lee Laboratory portion of the block containing "the chain of custody transfer information" filled out and signed?	YES ☐ NO ☐
Witness Signature and Date Signed. _____	

