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.

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.

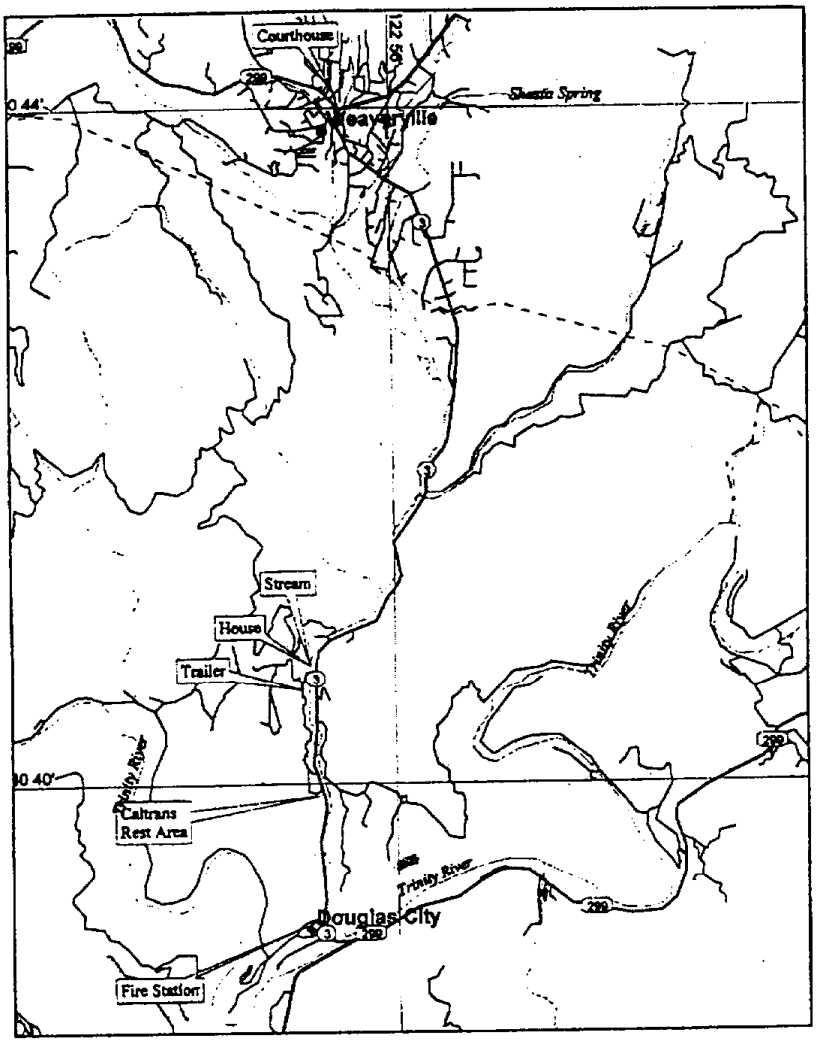
A meteorological station was set up at each sampling site. Wind roses for each sampling period and site are found in Attachment 3. The raw data is in electronic form and is available electronically.

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

		Start				End				
Log #	Sample ID	Date	Time	Flow rate	ETM	Flow rate	ETM	Sampler #	Comments	Site Name
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.

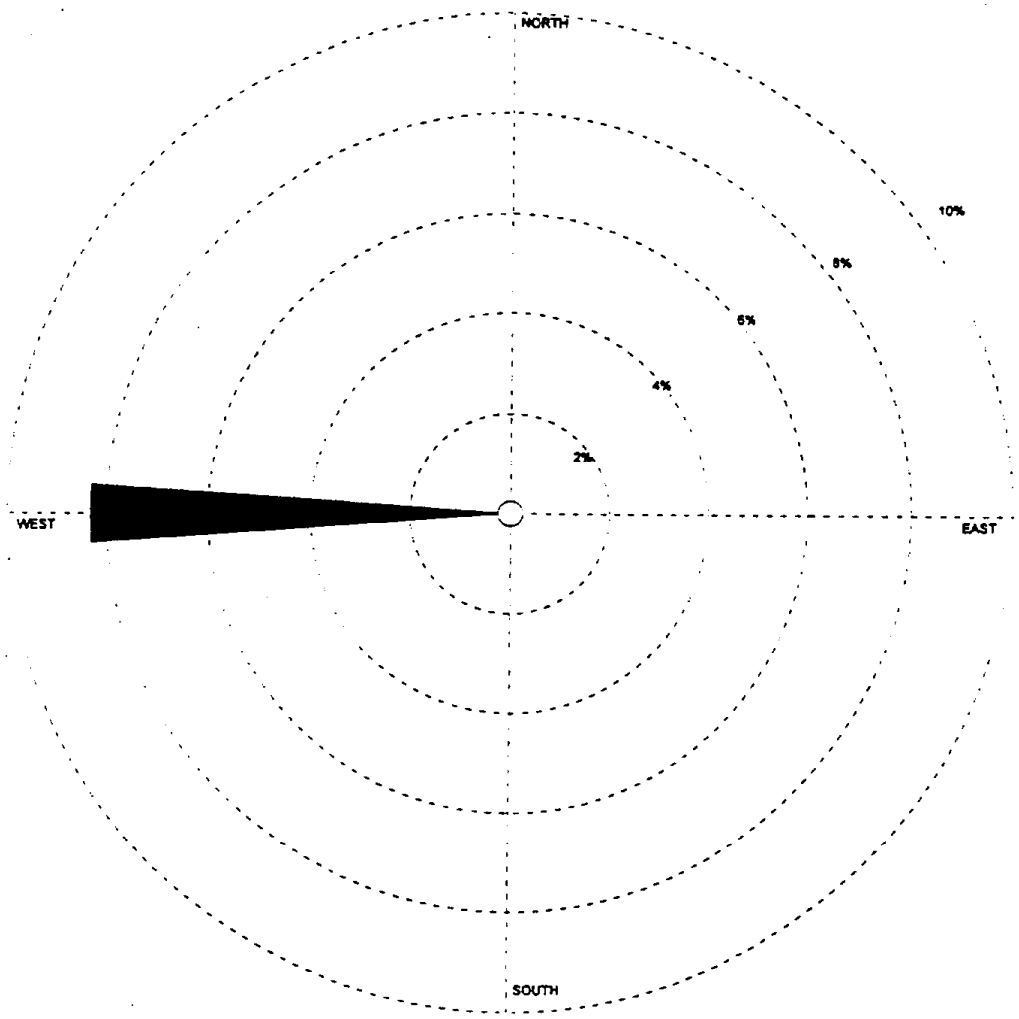
Attachment 2b
Results of Airborne Asbestos Monitoring

Log Number	Sample Number	Sampling Period	Sampling Location	MDL (S/cc)	Concentration Measured All Fibers (S/cc)	Concentration Measured >=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	0.0009
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

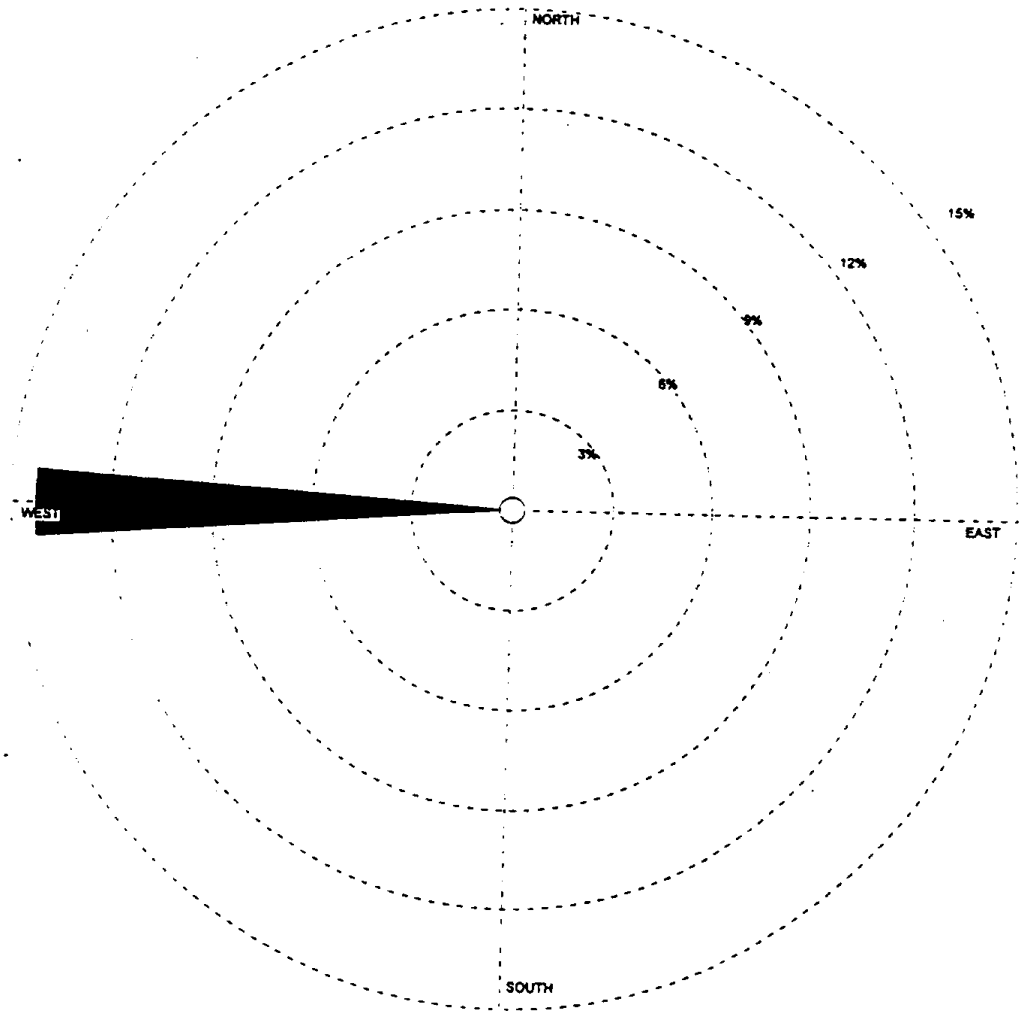
STATION #60000 - , Met Station On Telephone Pole Next to Trailer

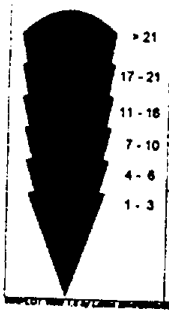


MODELER	DATE	COMPANY NAME
	3/29/99	
DISPLAY: Wind Speed	UNIT: Knots	COMMENTS: Third Day of Sampling October 22-23, 1998 Start Time 0900 hrs
AVG. WIND SPEED: 1.00 Knots	CALM WINDS: 91.67%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 98 October 22 - October 23 Midnight - 11 PM	PROJECT/PLOT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

WIND ROSE PLOT

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

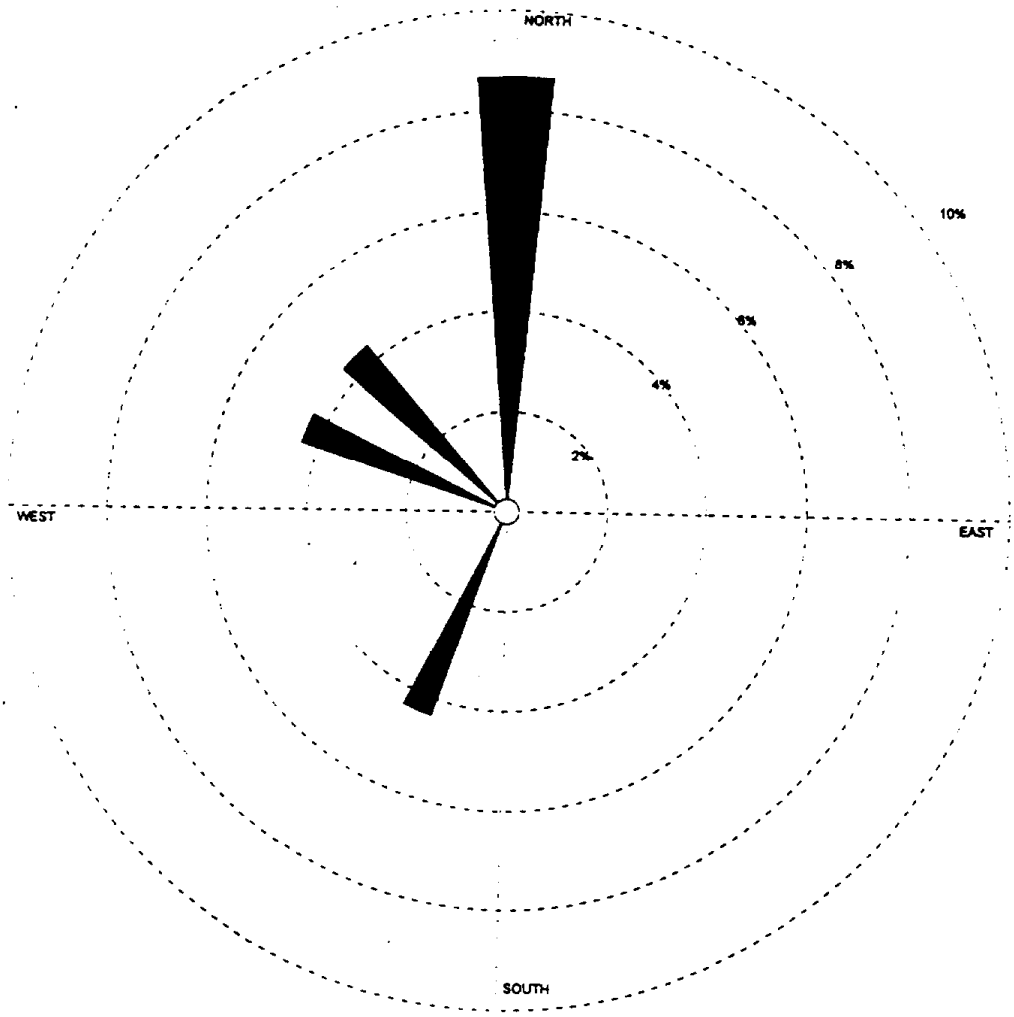


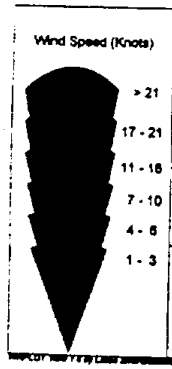


MODELER	DATE 3/29/99	COMPANY NAME	
DISPLAY Wind Speed	UNIT Knots	COMMENTS Second Day of Sampling October 21-22, 1998 Start Time 0900 hrs	
AVG. WIND SPEED 1.00 Knots	CALM WINDS 85.71%		
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 21 - October 22 Midnight - 11 PM	PROJECT/PLOT NO C-98-063	

WIND ROSE PLOT

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

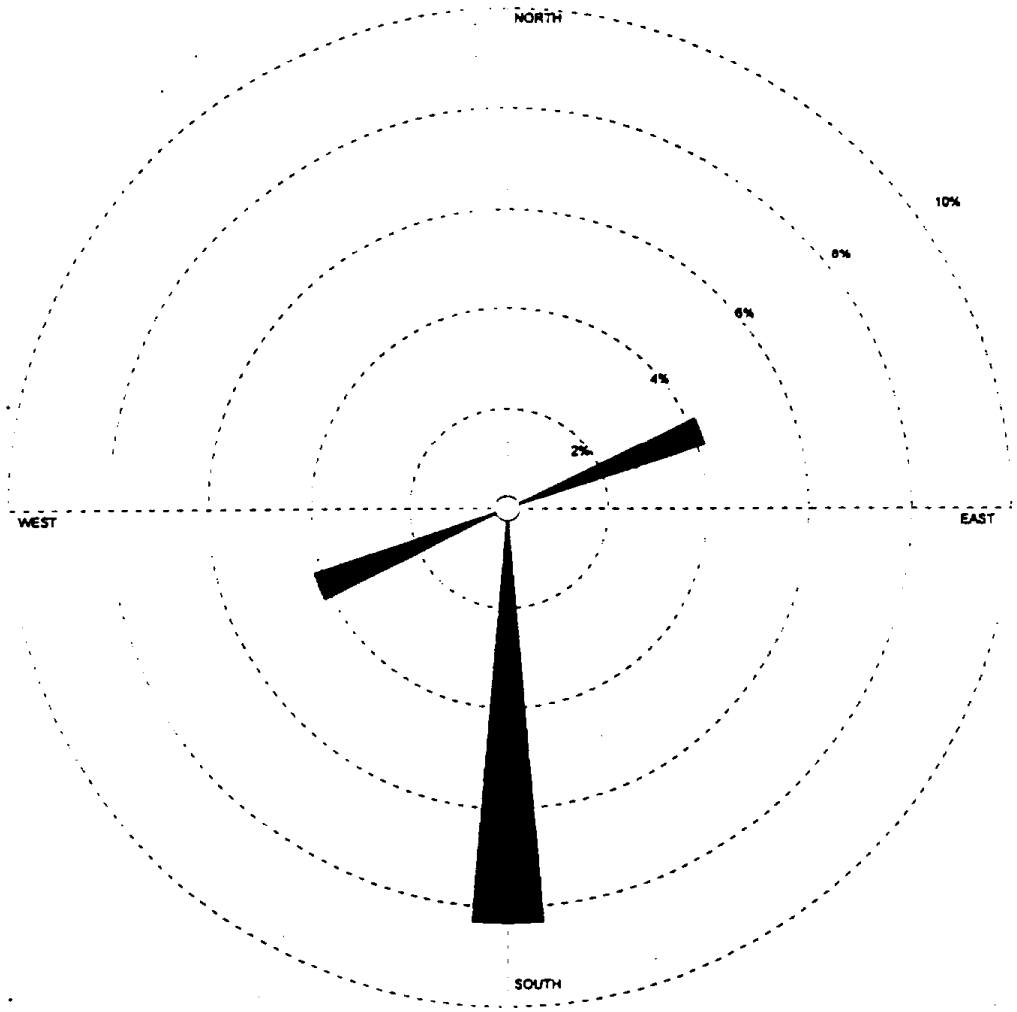




MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS First Day of Sampling October 20-21, 1998 Start Time 0900 hrs
AVG. WIND SPEED 1.80 Knots	CALM WINDS 78.26%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 20 - October 21 Midnight - 11 PM	PROJECT/PLOT NO. C-98-063

WIND ROSE PLOT

STATION #50000 - , Met Station Next to Stream across from North Entrance to Quarry

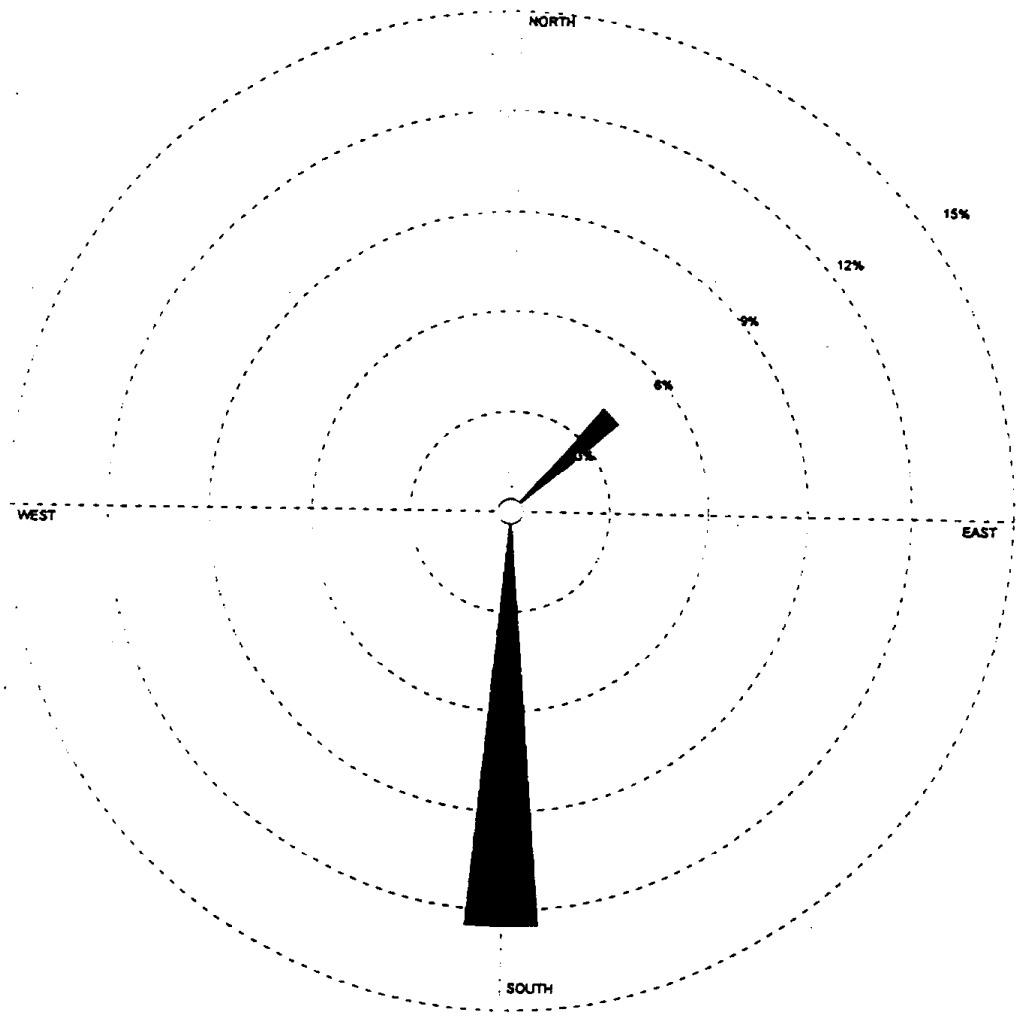


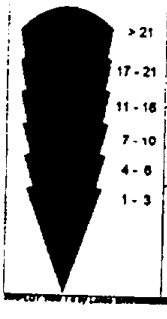
Wind Speed (Knots)

MODELER	DATE	COMPANY NAME
	3/29/99	
DISPLAY	UNIT	COMMENTS
Wind Speed	Knots	Third Day of Sampling October 22-23, 1998 Start Time 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

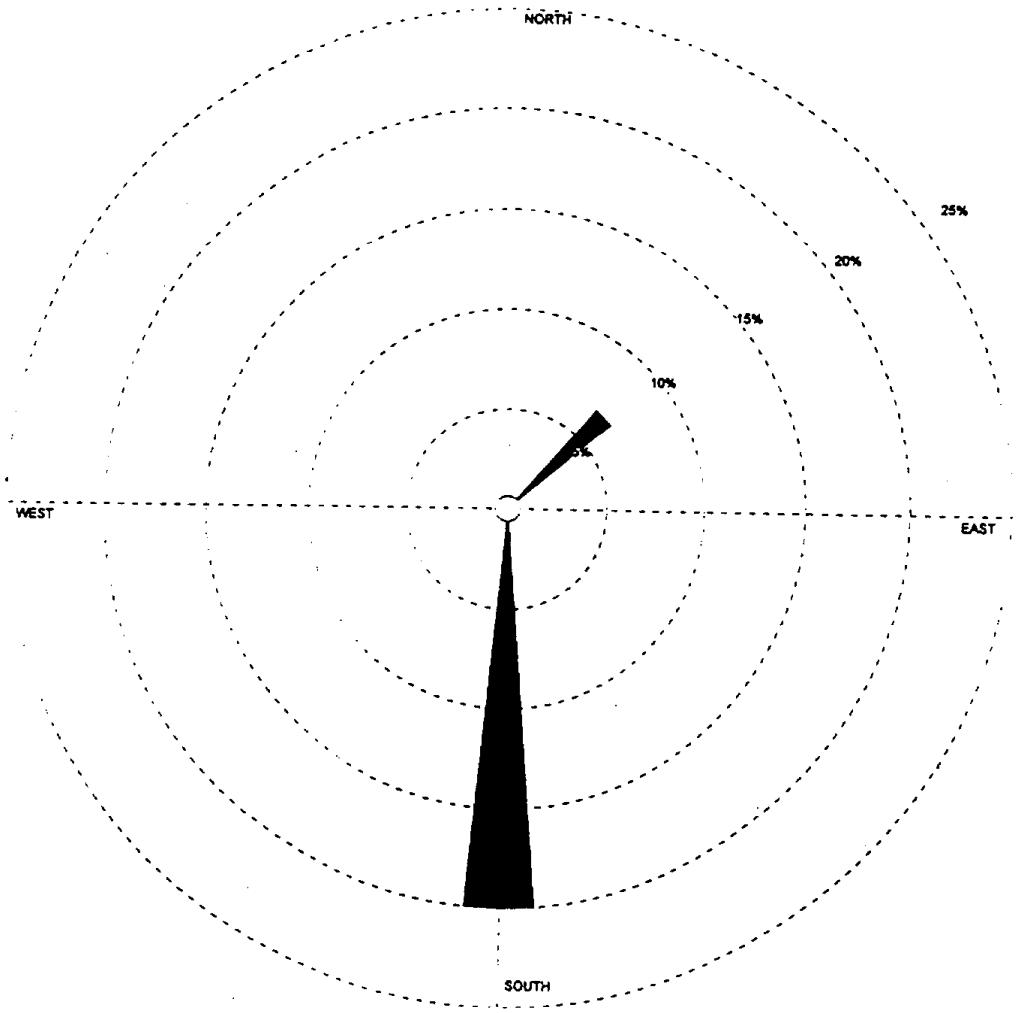


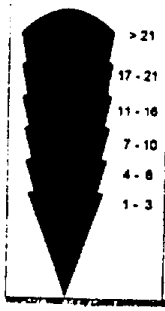


MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS Second Day of Sampling October 21-22, 1998 Start Time 0900 hrs
AVG. WIND SPEED 1.00 Knots	CALM WINDS 83.33%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 21 - October 22 Midnight - 11 PM	PROJECT/PLOT NO. C-98-063

WIND ROSE PLOT

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

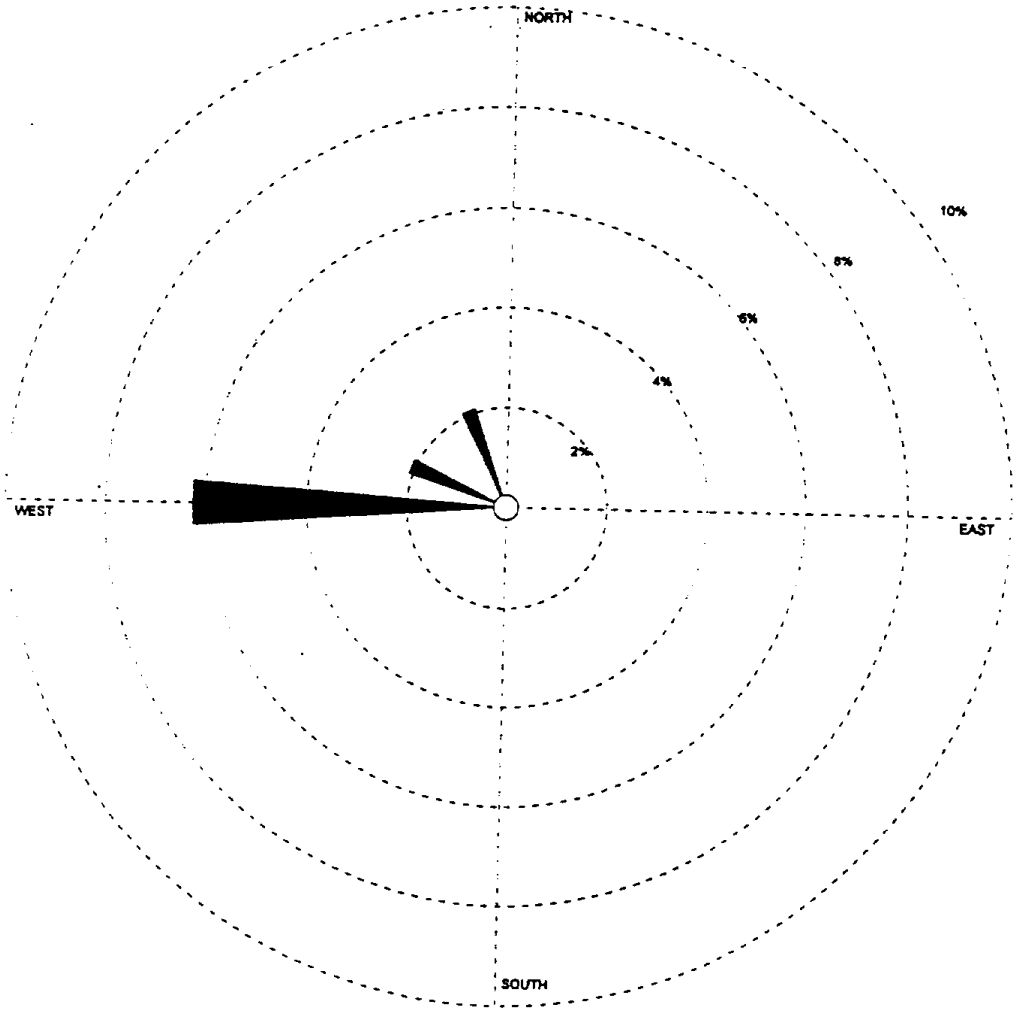


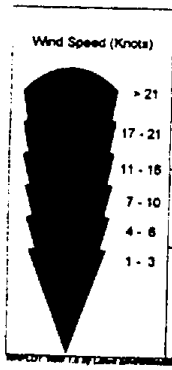


MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS First Day of Sampling October 20-21, 1998 Start Time 0900 hrs
AVG. WIND SPEED 1.00 Knots	CALM WINDS 73.33%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 20 - October 21 Midnight - 11 PM	PROJECT/PLOT NO. C-98-063

WIND ROSE PLOT

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

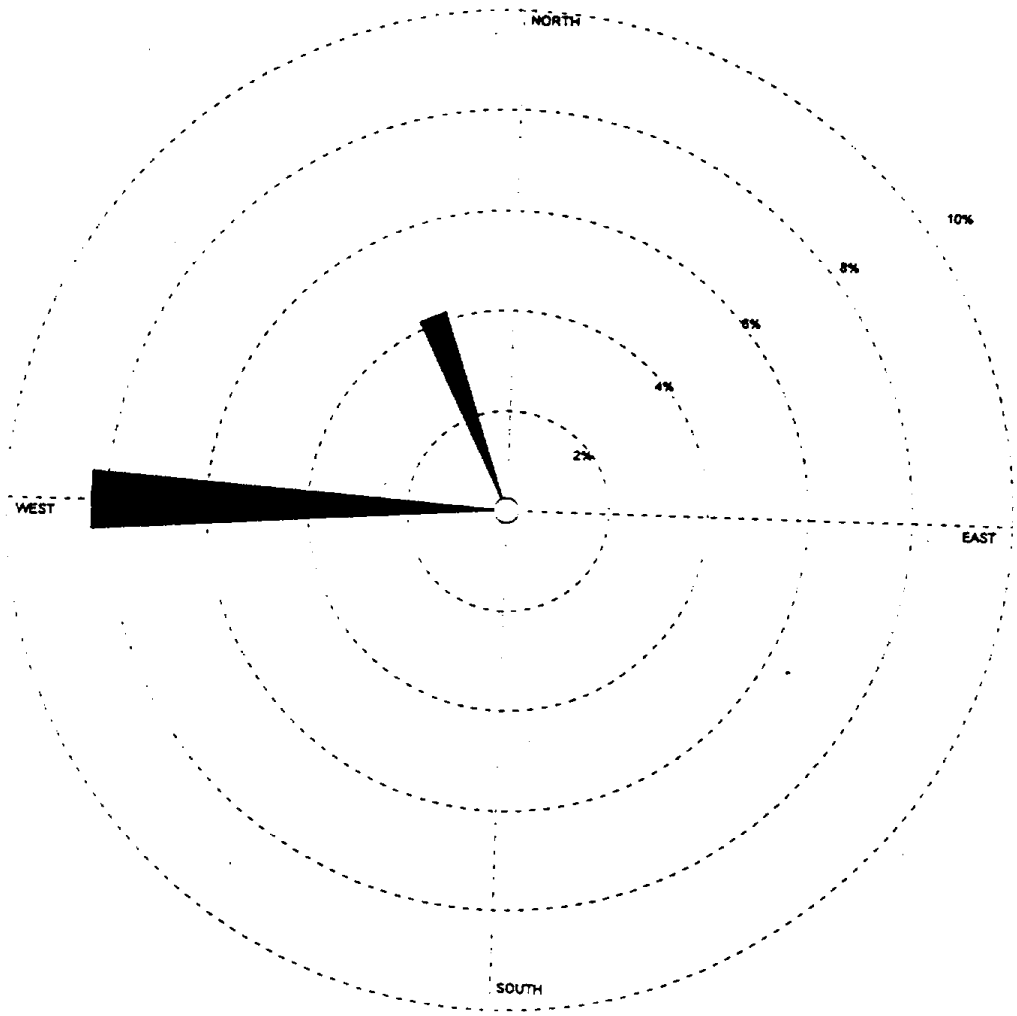


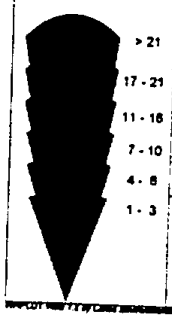


MODELER	DATE	COMPANY NAME
	3/29/99	
DISPLAY: Wind Speed	UNIT: Knots	COMMENTS: Third Day of Sampling October 22-23, 1998 Start Time 1100 hrs
AVG. WIND SPEED: 1.20 Knots	CALM WINDS: 89.58%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 98 October 22 - October 23 Midnight - 11 PM	PROJECT/PLOT NO: C-98-063

WIND ROSE PLOT

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

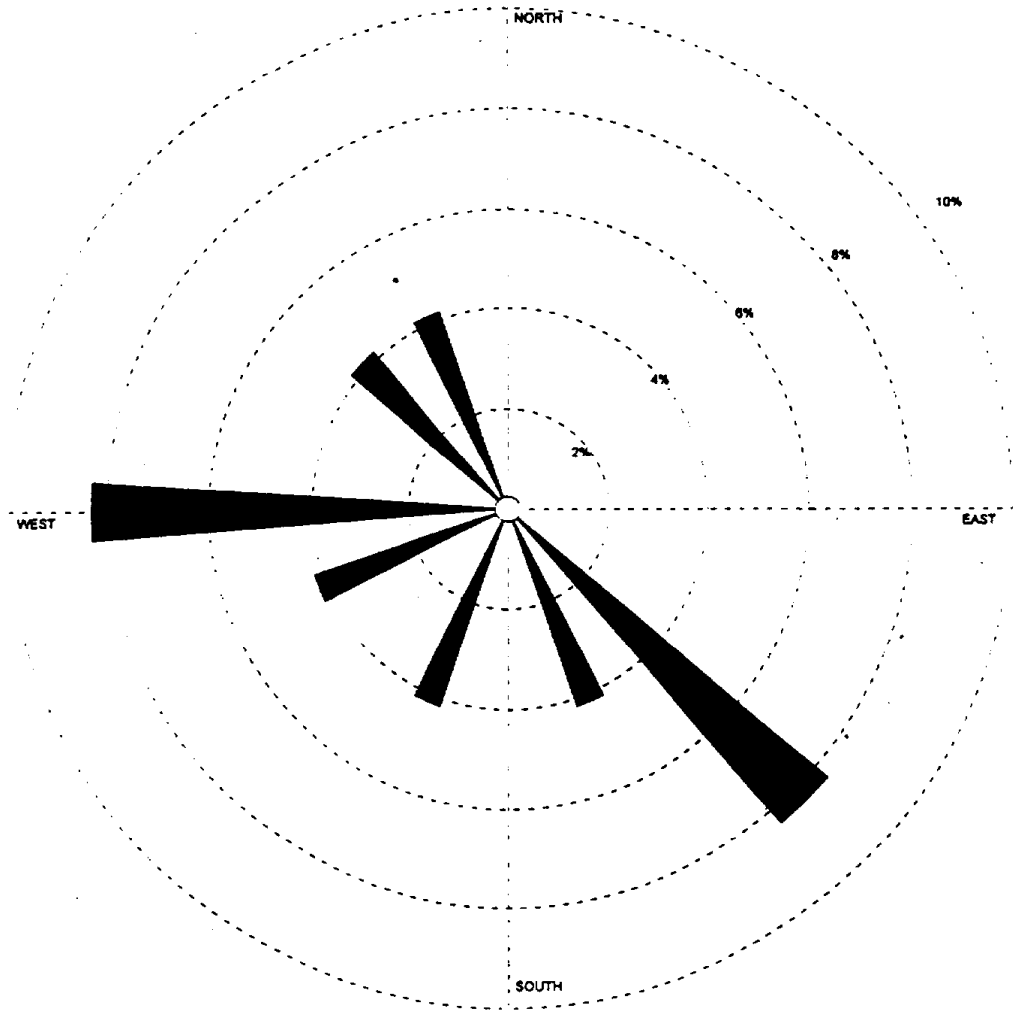




MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS Second Day of Sampling October 21-22, 1998 Start Time 1100 hrs
AVG. WIND SPEED 2.00 Knots	CALM WINDS 87.50%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 21 - October 22 Midnight - 11 PM	PROJECT/PLOT NO. C-98-063

WIND ROSE PLOT

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



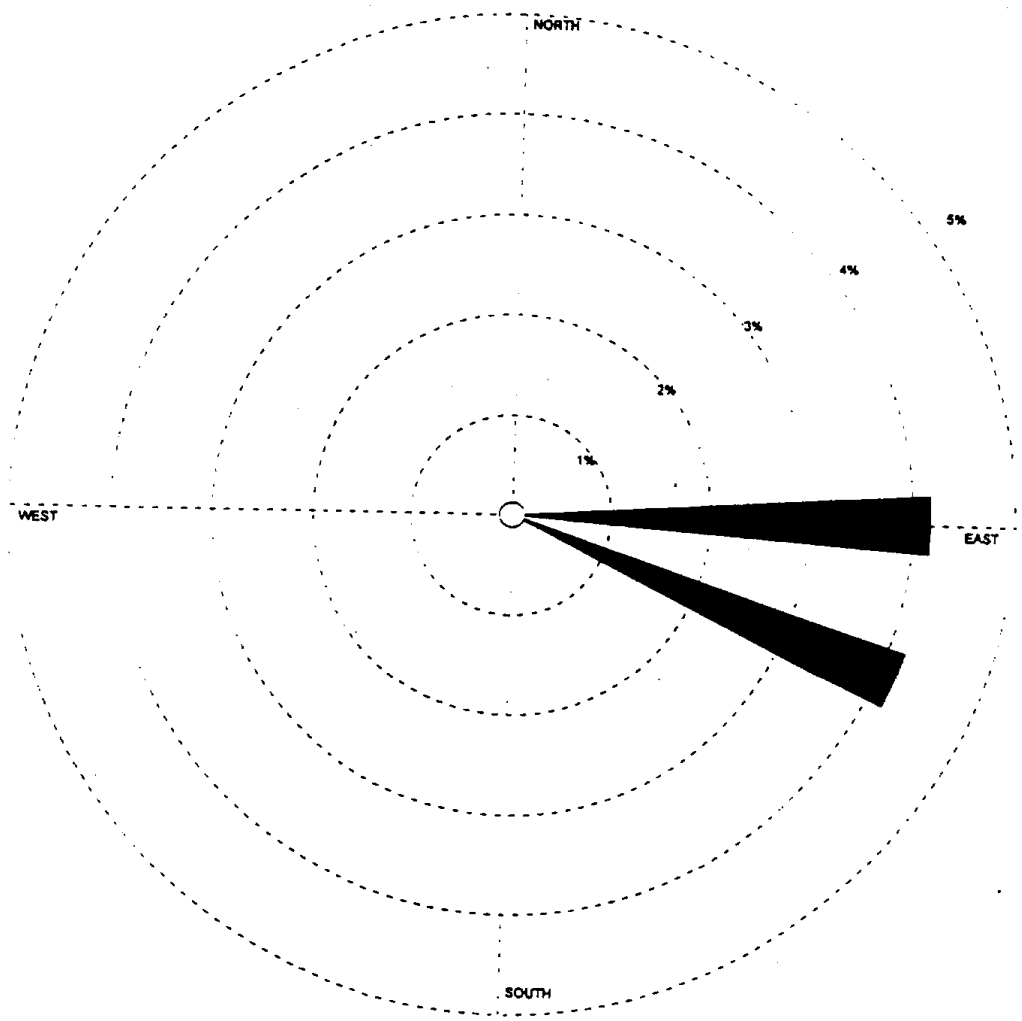
MODELER	DATE	COMPANY NAME
	3/29/99	

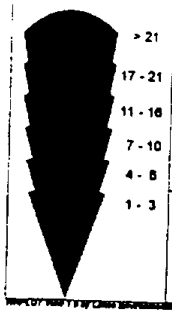
Wind Speed (Knots)

DISPLAY	UNIT	COMMENTS
Wind Speed	Knots	First Day of Sampling October 20-21, 1998 Start Time 1100 hrs
AVG. WIND SPEED	**CALM WINDS**	
1.67 Knots	62.50%	
ORIENTATION	**PLOT YEAR-DATE-TIME**	**PROJECT/PLOT NO**
Direction (blowing from)	98 October 20 - October 21 Midnight - 11 PM	C-98-063

WIND ROSE PLOT

STATION #30000 - , Met Station on Ground Next to House

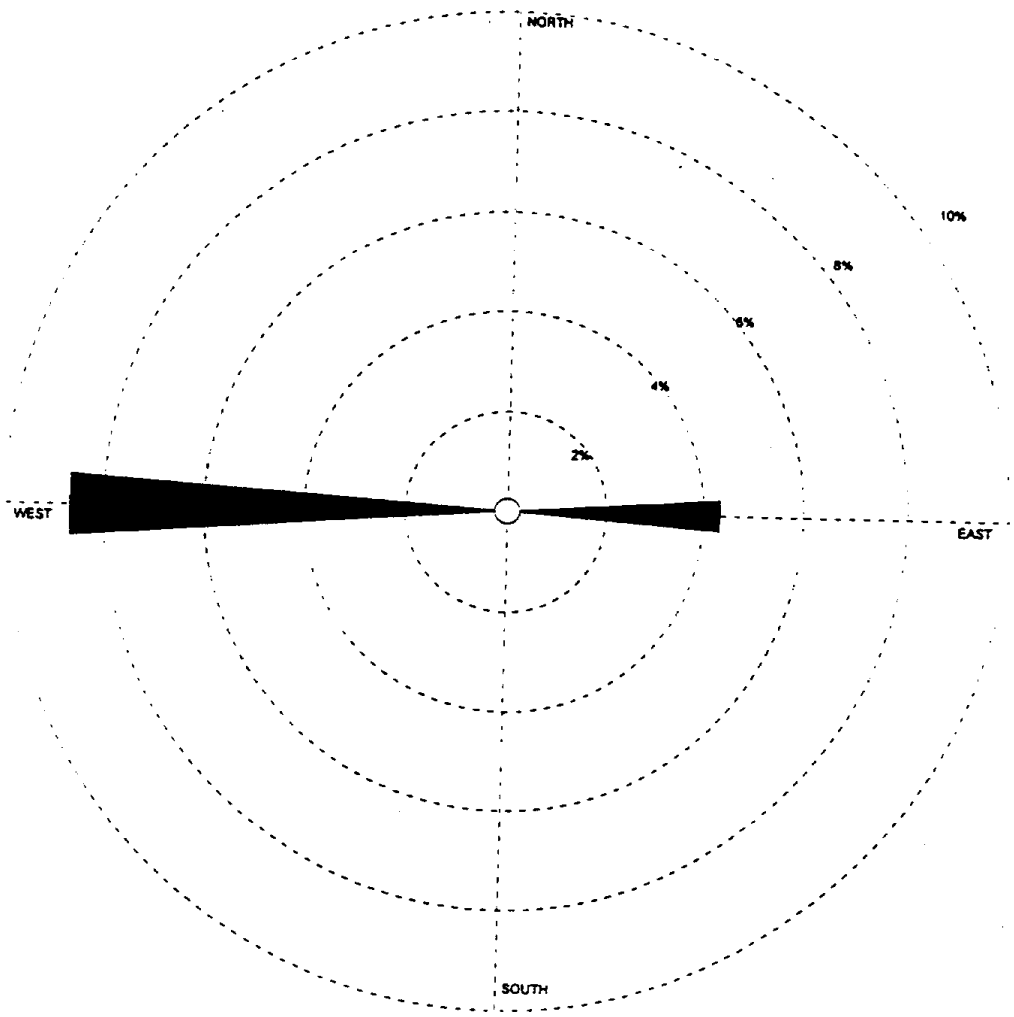




MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS Second Day of Sampling October 21-22, 1998 Start Time 0900 hrs
AVG. WIND SPEED 1.00 Knots	CALM WINDS 91.87%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 21 - October 22 Midnight - 11 PM	PROJECT/PLOT NO C-98-063

WIND ROSE PLOT

STATION #30000 - , Met Station on Ground Next to House

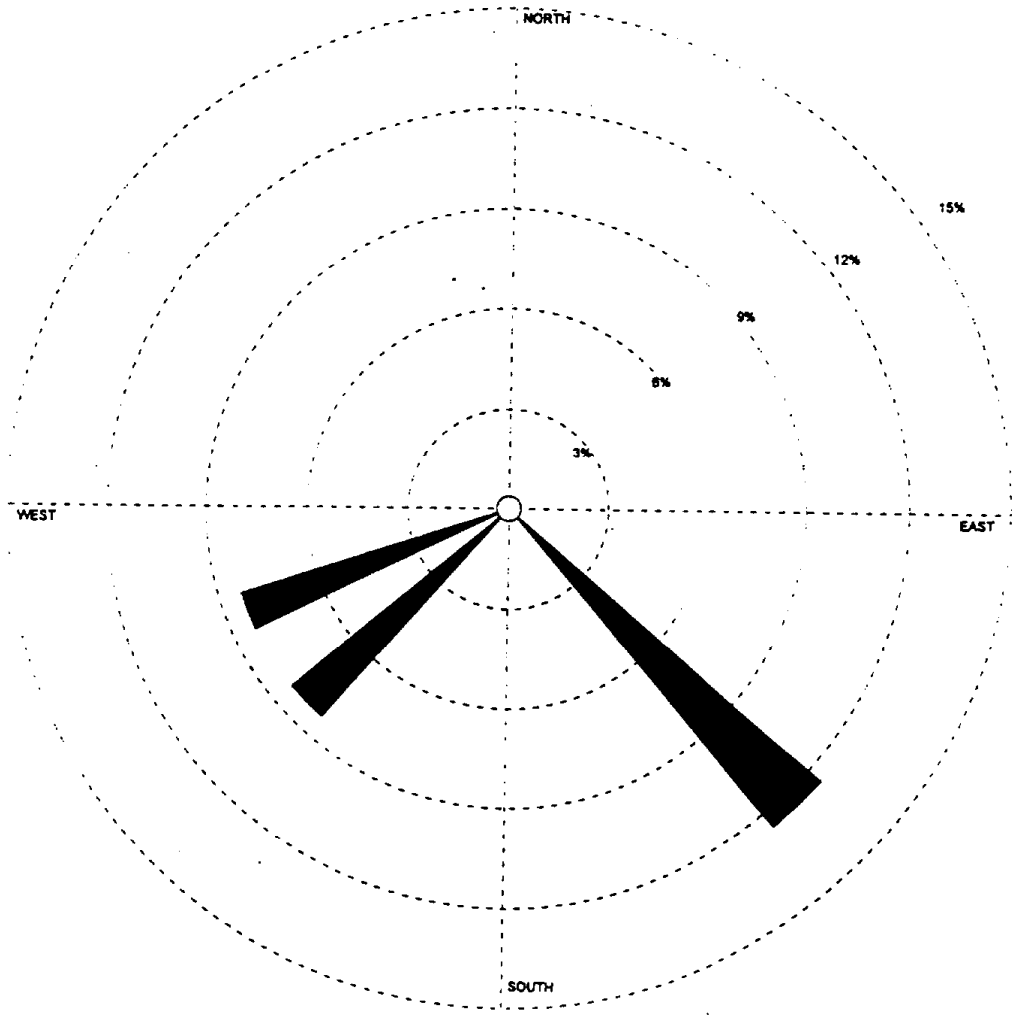


Wind Speed (Knots)

MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS First Day of Sampling October 20-21, 1998 Start Time 0900 hrs
AVG. WIND SPEED 1.00 Knots	CALM WINDS 88.96%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 20 - October 21 Midnight - 11 PM	PROJECT/PLOT NO. C-98-063

WIND ROSE PLOT

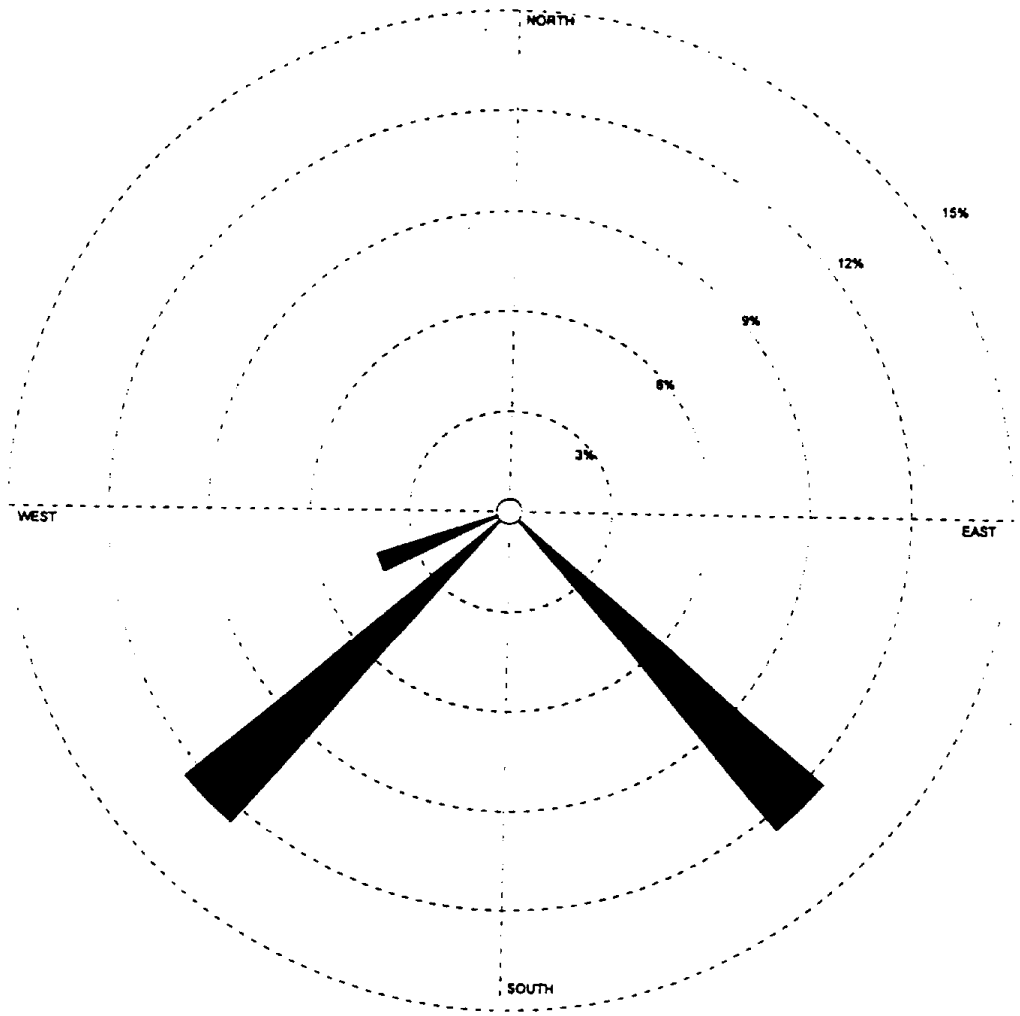
STATION #20000 - , Met Station on Roof of Fire Station in Douglas City

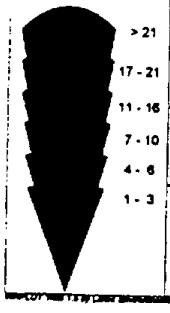


MODELER	DATE	COMPANY NAME
	3/29/99	
DISPLAY: Wind Speed	UNIT: Knots	COMMENTS: Third Day of Sampling October 22-23, 1998 Start Time 1200 hrs
AVG. WIND SPEED: 1.71 Knots	CALM WINDS: 70.83%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 98 October 22 - October 23 Midnight - 11 PM	PROJECT/PLOT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

WIND ROSE PLOT

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

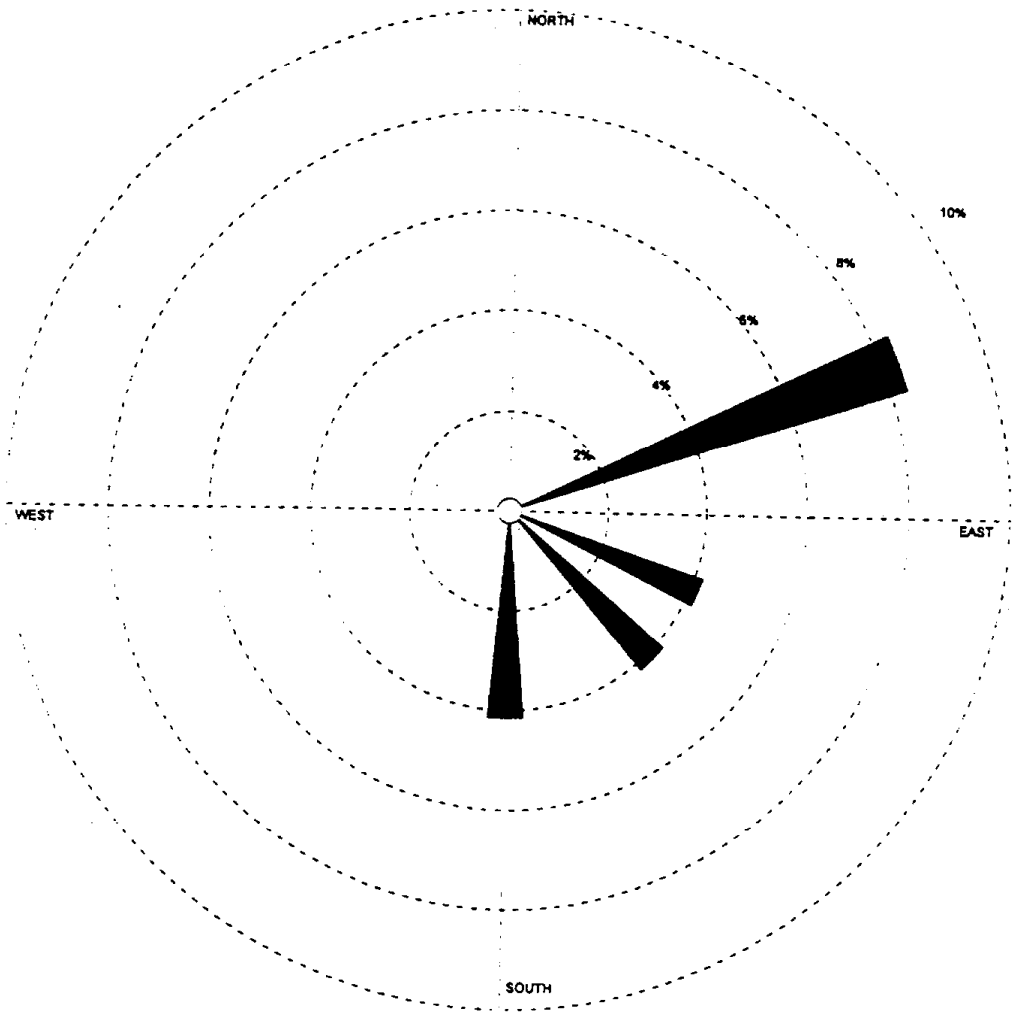




MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS Second Day of Sampling October 21-22, 1998 Start Time 1200 hrs
AVG. WIND SPEED 1.14 Knots	CALM WINDS 70.83%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 21 - October 22 Midnight - 11 PM	PROJECT/PLOT NO C-98-063

WIND ROSE PLOT

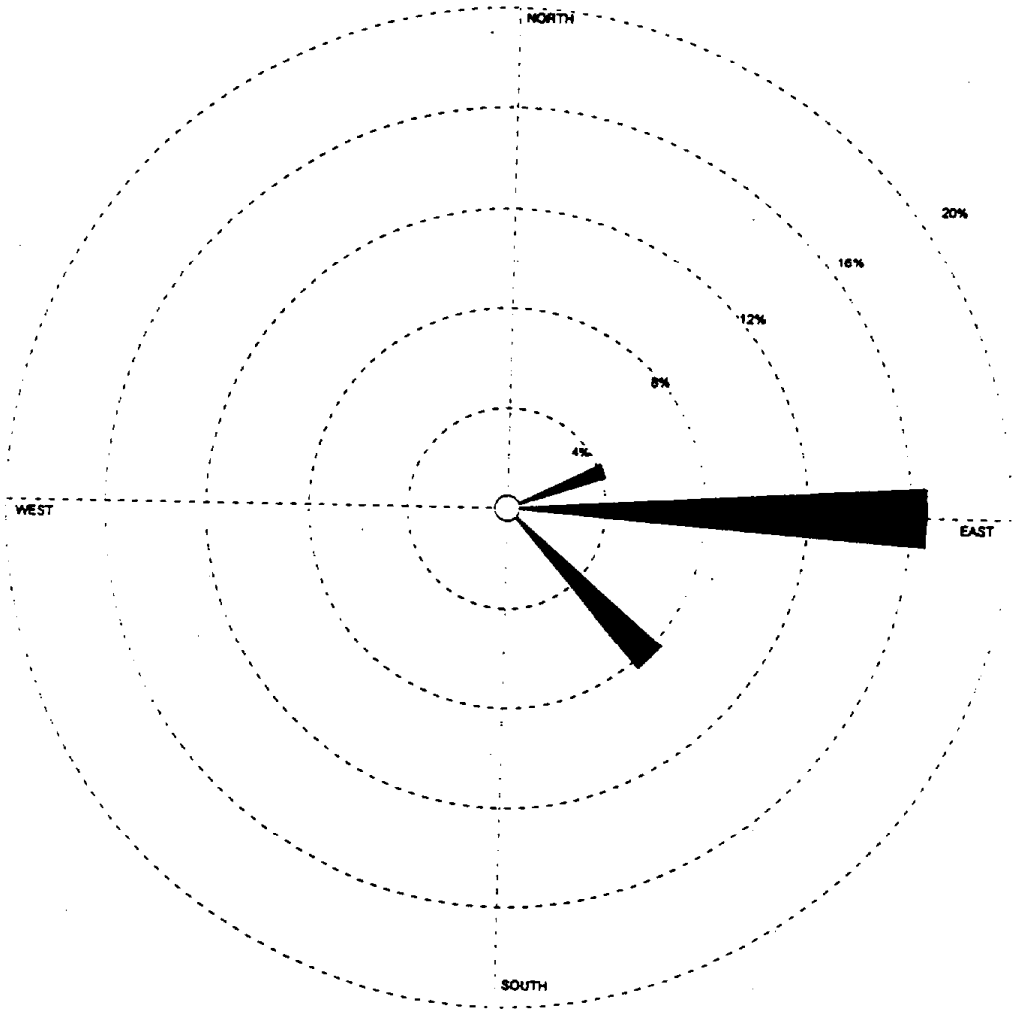
STATION #10000 - , Met Station on Roof of Courthouse, Weaverville, CA

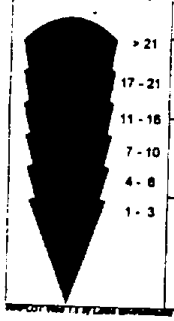


MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS Third Day of Sampling October 22-23, 1998 Start Time 1300 hrs
AVG. WIND SPEED 1.40 Knots	CALM WINDS 79.17%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 22 - October 23 Midnight - 11 PM	PROJECT/PLOT NO. C-98-063

WIND ROSE PLOT

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

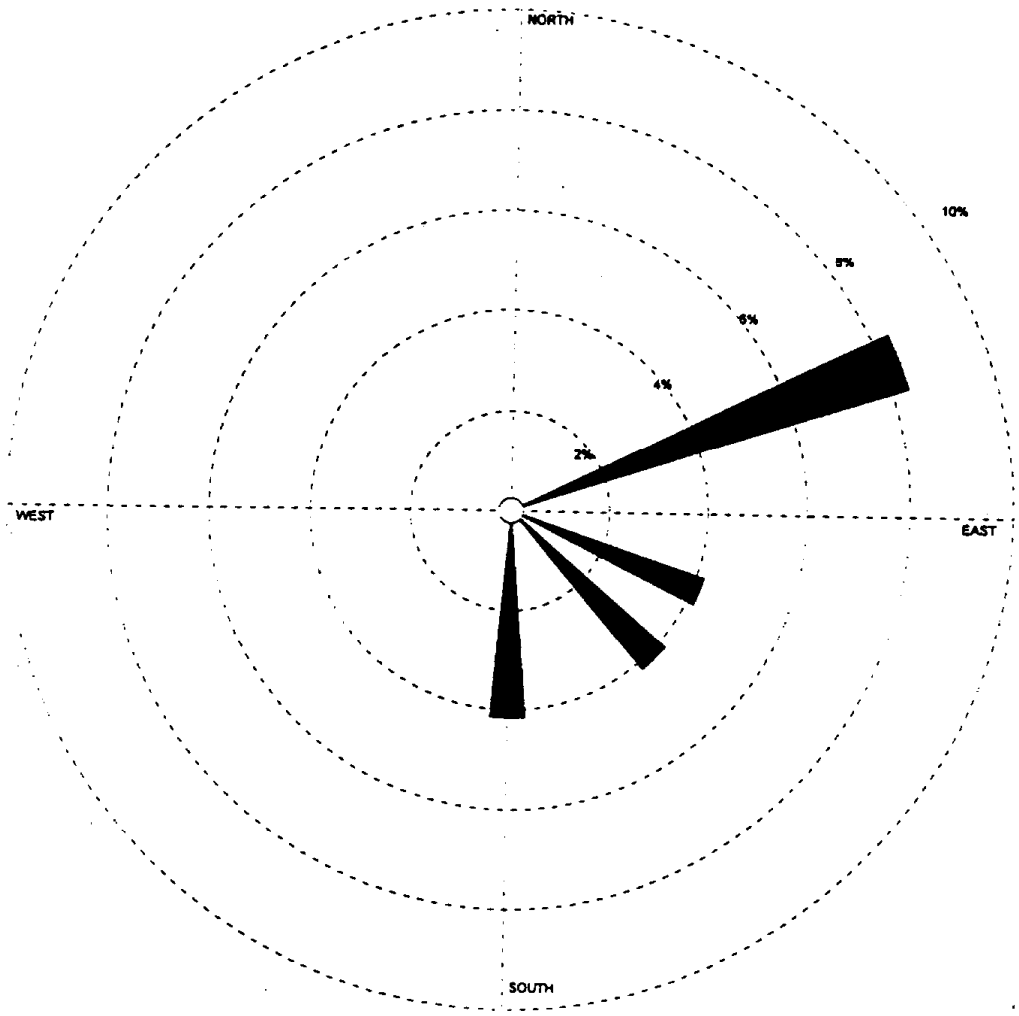




MODELER	DATE 3/29/99	COMPANY NAME
DISPLAY Wind Speed	UNIT Knots	COMMENTS First Day of Sampling October 20-21, 1998 Start Time 1200 hrs
AVG. WIND SPEED 2.14 Knots	CALM WINDS 70.83%	
ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 98 October 20 - October 21 Midnight - 11 PM	PROJECT/PLOT NO. C-98-063

WIND ROSE PLOT

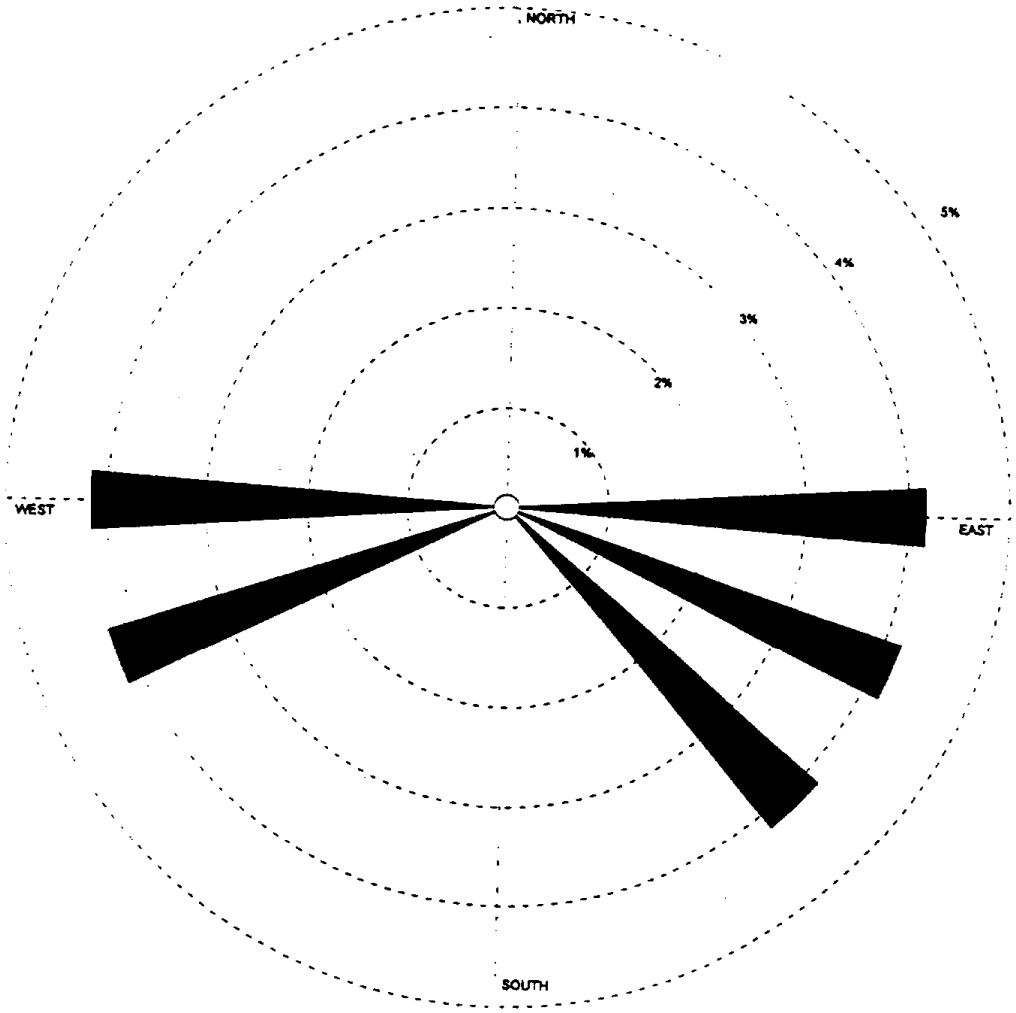
STATION #10000 - , Met Station on Roof of Courthouse, Weaverville, CA



MODELER	DATE	COMPANY NAME
	3/29/99	
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 #10000 - , Met Station on Roof of Courthouse, Weaverville, CA

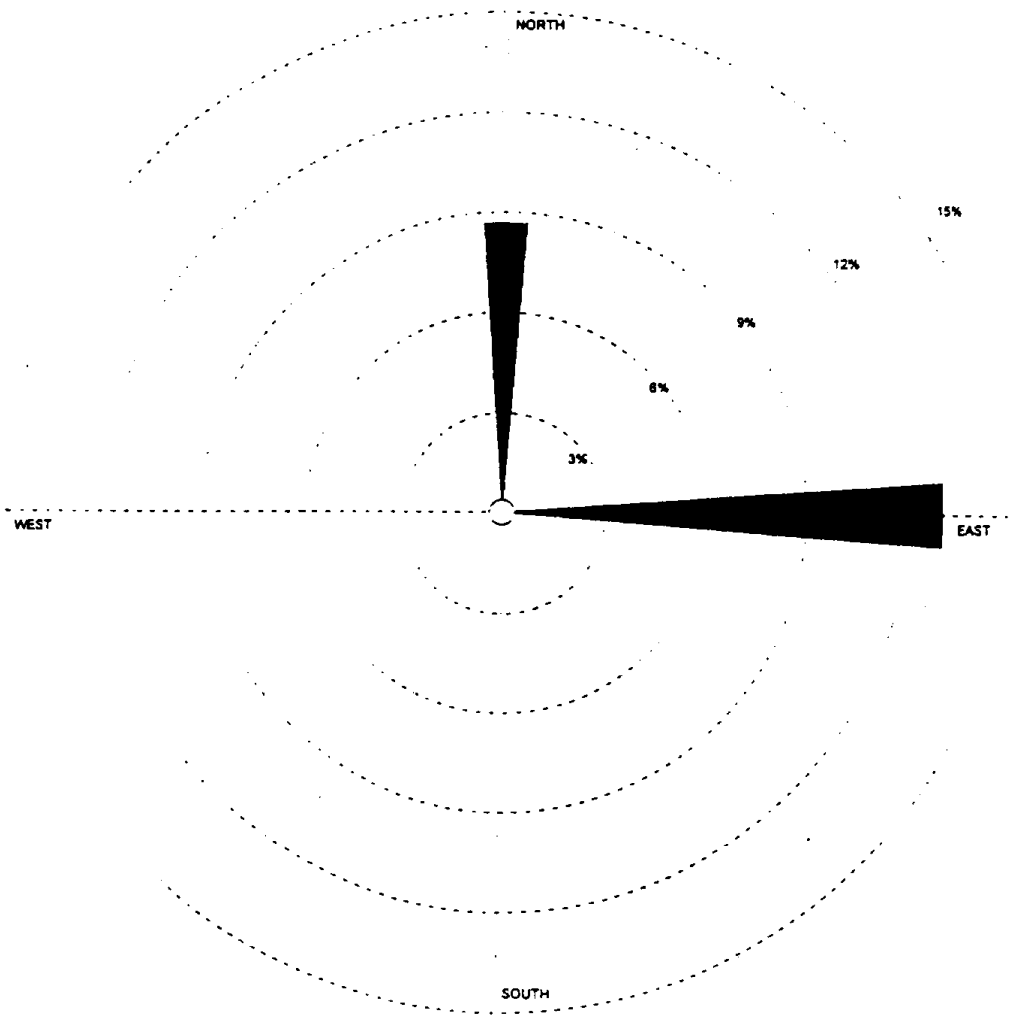


Wind Speed (Knots)

MODELER	DATE	COMPANY NAME
	3/23/99	
DISPLAY	UNIT	COMMENTS
Wind Speed	Knots	Second Day of Sampling October 21-22, 1998 Start Time 1300hrs
AVG. WIND SPEED	CALM WINDS	
1.00 Knots	79.17%	
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 #10000 - , Met Station on Roof of Courthouse, Weaverville, CA



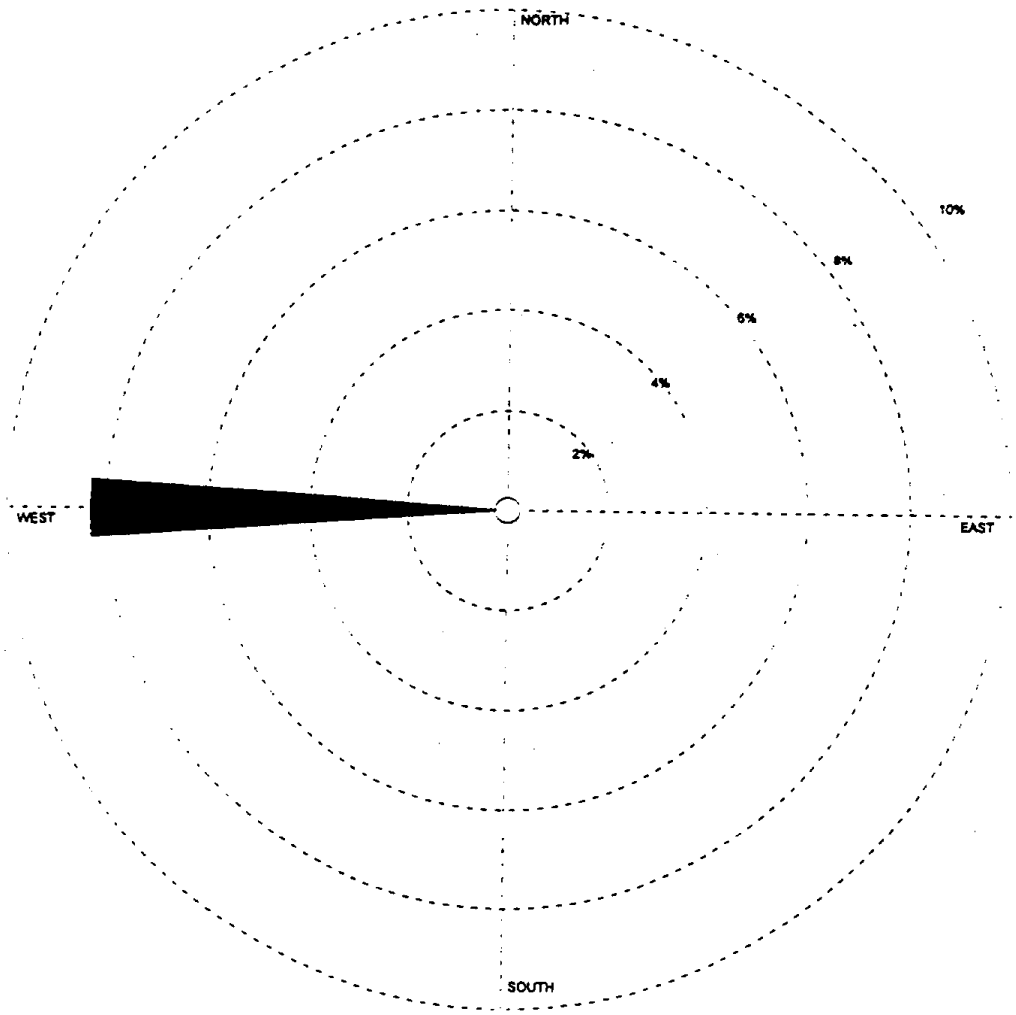
Wind Speed (Knots)

MODELER	DATE	COMPANY NAME
	3/29/99	
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 &	C-98-063

WRPLOT View 7.0 by Lakes Environmental Software - www.lakes-environmental.com

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	Third Day of Sampling October 22-23, 1998 Start Time 0900 hrs
AVG. WIND SPEED	**CALM WINDS**	
1.00 Knots	91.67%	
ORIENTATION	**PLOT YEAR-DATE-TIME**	**PROJECT/PLOT NO.**
Direction (blowing from)	98 October 22 - October 23 Midnight - 11 PM	C-98-063

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 ≥ 5μm 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 commpany'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 Analyzed (sq mm)	Structures Chr	Structures Amp	Analytical Sensitivity † (S/sq. mm)	Analytical Sensitivity † (S/cc)	Concentration (S/sq. mm)	Concentration (S/cc)	Analysis Date
1821537CT	TRI-1-WS1-1	385	4441.00	0.0921	3	0	10.9	0.0009	32.6	0.0028	3/9/99
1821538CT	TRI-2-WS2-1	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821539CT	TRI-3-WSN-1	385	11610.00	0.0921	1	0	10.9	0.0004	10.9	0.0004	3/9/99
1821540CT	TRI-4-WSS-1	385	1313.00	0.0921	1	0	10.9	0.0032	10.9	0.0032	3/9/99
1821541CT	TRI-5-WH1-1	385	4309.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821542CT	TRI-6-WH2-1	385	4307.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821543CT	TRI-7-TLR1-1	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821544CT	TRI-8-TLR2-1	385	4217.00	0.0921	9	0	10.9	0.0010	97.8	0.0089	3/9/99
1821545CT	TRI-9-RA1-1	385	4189.00	0.0921	5	0	10.9	0.0010	54.3	0.0050	3/9/99
1821546CT	TRI-10-RA2-1	385	4282.00	0.0921	3	0	10.9	0.0010	32.6	0.0029	3/9/99
1821547CT	TRI-11-RAN-1	385	6890.00	0.0921	2	0	10.9	0.0006	21.7	0.0012	3/9/99
1821548CT	TRI-12-RAS-1	385	6948.00	0.0921	1	0	10.9	0.0006	10.9	0.0006	3/9/99
1821549CT	TRI-13-FS1-1	385	4320.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821550CT	TRI-14-FS2-1	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821551CT	TRI-15-CH1-1	385	4297.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821552CT	TRI-16-CH2-1	385	1922.00	0.0921	0	0	10.9	0.0022	<10.9*	<0.0022*	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. S. Thomas
Bernard Thomas, Project Manager
Date

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Phone (510) 567-0480
Fax (510) 567-0488

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 Chr	Structures Amp	Analytical Sensitivity † (S/sq. mm)	Analytical Sensitivity † (S/cc)	Concentration (S/sq. mm)	Concentration (S/cc)	Analysis Date
1821553CT	TRI-17-WS1-2	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821554CT	TRI-18-WS2-2	385	4444.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	3/9/99
1821555CT	TRI-19-WSN-2	385	9741.00	0.0921	0	0	10.9	0.0004	<10.9*	<0.0004*	3/9/99
1821556CT	TRI-20-WSS-2	385	2655.00	0.0921	0	0	10.9	0.0016	<10.9*	<0.0016*	3/9/99
1821557CT	TRI-21-WH1-2	385	4462.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	3/9/99
1821558CT	TRI-22-WH2-2	385	4462.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	3/9/99
1821559CT	TRI-23-TLR1-2	385	4275.00	0.0921	8	0	10.9	0.0010	86.9	0.0078	3/9/99
1821560CT	TRI-24-TLR2-2	385	4275.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821561CT	TRI-25-RA1-2	385	4390.00	0.0921	2	0	10.9	0.0010	21.7	0.0019	3/9/99
1821562CT	TRI-26-RA2-2	385	4318.00	0.0921	9	0	10.9	0.0010	97.8	0.0087	3/9/99
1821563CT	TRI-27-RAN-2	385	8824.00	0.0921	8	0	10.9	0.0005	86.9	0.0038	3/9/99
1821564CT	TRI-28-RAS-2	385	3631.00	0.0921	2	0	10.9	0.0012	21.7	0.0023	3/9/99
1821565CT	TRI-29-FS1-2	385	4234.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821566CT	TRI-30-FS2-2	385	4008.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821567CT	TRI-31-CH1-2	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821568CT	TRI-32-CH2-2	385	4102.00	0.0921	0	0	10.9	0.0010	<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 B. T. Thomas
Bernard Thomas, Project Manager

Date

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Phone (510) 567-0480
Fax (510) 567-0488

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 Chr	Structures Amp	Analytical Sensitivity † (S/sq. mm)	Analytical Sensitivity † (S/cc)	Concentration (S/sq. mm)	Concentration (S/cc)	Analysis Date
1821569CT	TRI-33-WS1-3	385	4268.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821570CT	TRI-34-WS2-3	385	4275.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821571CT	TRI-35-WSN-3	385	8908.00	0.0921	0	0	10.9	0.0005	<10.9*	<0.0005*	3/9/99
1821572CT	TRI-36-WSS-3	385	1987.00	0.0921	11	0	10.9	0.0021	119.5	0.0232	3/9/99
1821573CT	TRI-37-WH1-3	385	3323.00	0.0921	0	0	10.9	0.0013	<10.9*	<0.0013*	3/9/99
1821574CT	TRI-38-WH2-3	385	4262.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821575CT	TRI-39-TLR1-3	385	4253.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821576CT	TRI-40-TLR2-3	385	4253.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821577CT	TRI-41-RA1-3	385	4289.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821578CT	TRI-42-RA2-3	385	4291.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821579CT	TRI-43-RAN-3	385	7241.00	0.0921	0	0	10.9	0.0006	<10.9*	<0.0006*	3/9/99
1821580CT	TRI-44-RAS-3	385	4619.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	3/9/99
1821581CT	TRI-45-FS1-3	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821582CT	TRI-46-FS2-3	385	4282.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821583CT	TRI-47-CH1-3	385	4196.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821584CT	TRI-48-CH2-3	385	4253.00	0.0921	1	0	10.9	0.0010	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 _____
Bernard Thomas, Project Manager
Date

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Phone (510) 567-0480
Fax (510) 567-0488

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 Chr	Structures Amp	Analytical Sensitivity † (S/sq. mm)	Analytical Sensitivity † (S/cc)	Concentration (S/sq. mm)	Concentration (S/cc)	Analysis Date
1821585CT	TRI-49-BUDS-2	385	4320.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821586CT	TRI-50-BUDS-1	385	4320.00	0.0921	0	0	10.9	0.0010	<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 _____
Bernard Thomas, Project Manager
Date Date Wednesday, March 10, 1999

RJ Lee Group, Inc.
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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	Structures ≥5 µm Amp	Analytical Sensitivity † (S/sq. mm)	Analytical Sensitivity † (S/cc)	Concentration for Structures ≥ 5 µm (S/sq. mm)	Concentration for Structures ≥ 5 µm (S/cc)	Analysis Date
1821537CT	TRI-1-WS1-1	385	4441.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	3/9/99
1821538CT	TRI-2-WS2-1	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821539CT	TRI-3-WSN-1	385	11610.00	0.0921	0	0	10.9	0.0004	<10.9*	<0.0004*	3/9/99
1821540CT	TRI-4-WSS-1	385	1313.00	0.0921	0	0	10.9	0.0032	<10.9*	<0.0032*	3/9/99
1821541CT	TRI-5-WH1-1	385	4309.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821542CT	TRI-6-WH2-1	385	4307.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821543CT	TRI-7-TLR1-1	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821544CT	TRI-8-TLR2-1	385	4217.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821545CT	TRI-9-RA1-1	385	4189.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821546CT	TRI-10-RA2-1	385	4282.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821547CT	TRI-11-RAN-1	385	6890.00	0.0921	1	0	10.9	0.0006	10.9	0.0006	3/9/99
1821548CT	TRI-12-RAS-1	385	6948.00	0.0921	1	0	10.9	0.0006	10.9	0.0006	3/9/99
1821549CT	TRI-13-FS1-1	385	4320.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821550CT	TRI-14-FS2-1	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821551CT	TRI-15-CH1-1	385	4297.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821552CT	TRI-16-CH2-1	385	1922.00	0.0921	0	0	10.9	0.0022	<10.9*	<0.0022*	3/9/99
1821553CT	TRI-17-WS1-2	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821554CT	TRI-18-WS2-2	385	4444.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	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

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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	Structures ≥5 µm Amp	Analytical Sensitivity † (S/sq. mm)	Analytical Sensitivity † (S/cc)	Concentration for Structures ≥ 5 µm (S/sq. mm)	Concentration for Structures ≥ 5 µm (S/cc)	Analysis Date
1821555CT	TRI-19-WSN-2	385	9741.00	0.0921	0	0	10.9	0.0004	<10.9*	<0.0004*	3/9/99
1821556CT	TRI-20-WSS-2	385	2655.00	0.0921	0	0	10.9	0.0016	<10.9*	<0.0016*	3/9/99
1821557CT	TRI-21-WH1-2	385	4462.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	3/9/99
1821558CT	TRI-22-WH2-2	385	4462.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	3/9/99
1821559CT	TRI-23-TLR1-2	385	4275.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821560CT	TRI-24-TLR2-2	385	4275.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821561CT	TRI-25-RA1-2	385	4390.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821562CT	TRI-26-RA2-2	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821563CT	TRI-27-RAN-2	385	8824.00	0.0921	2	0	10.9	0.0005	21.7	0.0009	3/9/99
1821564CT	TRI-28-RAS-2	385	3631.00	0.0921	0	0	10.9	0.0012	<10.9*	<0.0012*	3/9/99
1821565CT	TRI-29-FS1-2	385	4234.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821566CT	TRI-30-FS2-2	385	4008.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821567CT	TRI-31-CH1-2	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821568CT	TRI-32-CH2-2	385	4102.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821569CT	TRI-33-WS1-3	385	4268.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821570CT	TRI-34-WS2-3	385	4275.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821571CT	TRI-35-WSN-3	385	8908.00	0.0921	0	0	10.9	0.0005	<10.9*	<0.0005*	3/9/99
1821572CT	TRI-36-WSS-3	385	1987.00	0.0921	0	0	10.9	0.0021	<10.9*	<0.0021*	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

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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	Structures ≥5 µm Amp	Analytical Sensitivity † (S/sq. mm)	Analytical Sensitivity † (S/cc)	Concentration for Structures ≥ 5 µm (S/sq. mm)	Concentration for Structures ≥ 5 µm (S/cc)	Analysis Date
1821573CT	TRI-37-WH1-3	385	3323.00	0.0921	0	0	10.9	0.0013	<10.9*	<0.0013*	3/9/99
1821574CT	TRI-38-WH2-3	385	4262.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821575CT	TRI-39-TLR1-3	385	4253.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821576CT	TRI-40-TLR2-3	385	4253.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821577CT	TRI-41-RA1-3	385	4289.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821578CT	TRI-42-RA2-3	385	4291.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821579CT	TRI-43-RAN-3	385	7241.00	0.0921	0	0	10.9	0.0006	<10.9*	<0.0006*	3/9/99
1821580CT	TRI-44-RAS-3	385	4619.00	0.0921	0	0	10.9	0.0009	<10.9*	<0.0009*	3/9/99
1821581CT	TRI-45-FS1-3	385	4318.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821582CT	TRI-46-FS2-3	385	4282.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821583CT	TRI-47-CH1-3	385	4196.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821584CT	TRI-48-CH2-3	385	4253.00	0.0921	1	0	10.9	0.0010	10.9	0.0010	3/9/99
1821585CT	TRI-49-BUDS-2	385	4320.00	0.0921	0	0	10.9	0.0010	<10.9*	<0.0010*	3/9/99
1821586CT	TRI-50-BUDS-1	385	4320.00	0.0921	0	0	10.9	0.0010	<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 _____
Bernard Thomas, Project Manager
Date

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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	Poisson Range Upper	Lower Concentration Bounds ‡ S/sq mm	Lower Concentration Bounds ‡ S/cc	Upper Concentration Bounds ‡ S/sq mm	Upper Concentration Bounds ‡ S/cc	Analysis Date
1821537CT	TRI-1-WS1-1	3	1	9	10.86	0.0009	97.76	0.0085	3/9/99
1821538CT	TRI-2-WS2-1	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821539CT	TRI-3-WSN-1	1	0	6	0.00	0.0000	65.18	0.0022	3/9/99
1821540CT	TRI-4-WSS-1	1	0	6	0.00	0.0000	65.18	0.0191	3/9/99
1821541CT	TRI-5-WH1-1	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821542CT	TRI-6-WH2-1	1	0	6	0.00	0.0000	65.18	0.0058	3/9/99
1821543CT	TRI-7-TLR1-1	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821544CT	TRI-8-TLR2-1	9	4	17	43.45	0.0040	184.66	0.0169	3/9/99
1821545CT	TRI-9-RA1-1	5	2	12	21.73	0.0020	130.35	0.0120	3/9/99
1821546CT	TRI-10-RA2-1	3	1	9	10.86	0.0010	97.76	0.0088	3/9/99
1821547CT	TRI-11-RAN-1	2	0	7	0.00	0.0000	76.04	0.0042	3/9/99
1821548CT	TRI-12-RAS-1	1	0	6	0.00	0.0000	65.18	0.0036	3/9/99
1821549CT	TRI-13-FS1-1	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821550CT	TRI-14-FS2-1	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821551CT	TRI-15-CH1-1	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821552CT	TRI-16-CH2-1	0	0	4	<10.86*	<0.0022*	43.45	0.0087	3/9/99
1821553CT	TRI-17-WS1-2	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821554CT	TRI-18-WS2-2	0	0	4	<10.86*	<0.0009*	43.45	0.0038	3/9/99
1821555CT	TRI-19-WSN-2	0	0	4	<10.86*	<0.0004*	43.45	0.0017	3/9/99
1821556CT	TRI-20-WSS-2	0	0	4	<10.86*	<0.0016*	43.45	0.0063	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

Authorized Signature _____
Bernard Thomas, Project Manager

N/A - Sample not analyzed.

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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	Poisson Range Upper	Lower Concentration Bounds ‡ S/sq mm	Lower Concentration Bounds ‡ S/cc	Upper Concentration Bounds ‡ S/sq mm	Upper Concentration Bounds ‡ S/cc	Analysis Date
1821557CT	TRI-21-WH1-2	0	0	4	<10.86*	<0.0009*	43.45	0.0037	3/9/99
1821558CT	TRI-22-WH2-2	0	0	4	<10.86*	<0.0009*	43.45	0.0037	3/9/99
1821559CT	TRI-23-TLR1-2	8	3	16	32.59	0.0029	173.80	0.0157	3/9/99
1821560CT	TRI-24-TLR2-2	1	0	6	0.00	0.0000	65.18	0.0059	3/9/99
1821561CT	TRI-25-RA1-2	2	0	7	0.00	0.0000	76.04	0.0067	3/9/99
1821562CT	TRI-26-RA2-2	9	4	17	43.45	0.0039	184.66	0.0165	3/9/99
1821563CT	TRI-27-RAN-2	8	3	16	32.59	0.0014	173.80	0.0076	3/9/99
1821564CT	TRI-28-RAS-2	2	0	7	0.00	0.0000	76.04	0.0081	3/9/99
1821565CT	TRI-29-FS1-2	1	0	6	0.00	0.0000	65.18	0.0059	3/9/99
1821566CT	TRI-30-FS2-2	1	0	6	0.00	0.0000	65.18	0.0063	3/9/99
1821567CT	TRI-31-CH1-2	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821568CT	TRI-32-CH2-2	0	0	4	<10.86*	<0.0010*	43.45	0.0041	3/9/99
1821569CT	TRI-33-WS1-3	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821570CT	TRI-34-WS2-3	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821571CT	TRI-35-WSN-3	0	0	4	<10.86*	<0.0005*	43.45	0.0019	3/9/99
1821572CT	TRI-36-WSS-3	11	5	20	54.31	0.0105	217.25	0.0421	3/9/99
1821573CT	TRI-37-WH1-3	0	0	4	<10.86*	<0.0013*	43.45	0.0050	3/9/99
1821574CT	TRI-38-WH2-3	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821575CT	TRI-39-TLR1-3	0	0	4	<10.86*	<0.0010*	43.45	0.0039	3/9/99
1821576CT	TRI-40-TLR2-3	1	0	6	0.00	0.0000	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

Authorized Signature _____
Bernard Thomas, Project Manager

N/A - Sample not analyzed.

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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	Poisson Range Upper	Lower Concentration Bounds ‡ S/sq mm	Lower Concentration Bounds ‡ S/cc	Upper Concentration Bounds ‡ S/sq mm	Upper Concentration Bounds ‡ S/cc	Analysis Date
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-CH1-3	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

Authorized Signature _____
Bernard Thomas, Project Manager

N/A - Sample not analyzed.

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Count Sheet

Client Name	California Air Resources Board		
Project Number	ATC902247	RJL QA Number	CQ12941
RJL Sample #	1821537CT	Grid Openings	10
Client Sample #	TRI-1-WS1-1	Total Asbestos	3
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4441.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12941
RJL Sample #	1821538CT	Grid Openings	10
Client Sample #	TRI-2-WS2-1	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4318.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12941
RJL Sample #	1821539CT	Grid Openings	10
Client Sample #	TRI-3-WSN-1	Total Asbestos	1
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	11610.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number**	CQ12941
RJL Sample #	1821541CT	**Grid Openings**	10
Client Sample #	TRI-5-WH1-1	**Total Asbestos**	0
Microscope	1200 EX	**Total Non-Asbestos**	1
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4309.0 Liters
Analyst	MB	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12941
RJL Sample #	1821540CT	Grid Openings	10
Client Sample #	TRI-4-WSS-1	Total Asbestos	1
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	1313.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12941
RJL Sample #	1821541CT	Grid Openings	10
Client Sample #	TRI-5-WH1-1	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	1
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4309.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12941
RJL Sample #	1821542CT	Grid Openings	10
Client Sample #	TRI-6-WH2-1	Total Asbestos	1
Microscope	1200 EX	Total Non-Asbestos	1
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4307.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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	RJL QA Number	CQ12941
RJL Sample #	1821543CT	Grid Openings	10
Client Sample #	TRI-7-TLR1-1	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4318.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number**	CQ12941
RJL Sample #	1821544CT	**Grid Openings**	10
Client Sample #	TRI-8-TLR2-1	**Total Asbestos**	9
Microscope	1200 EX	**Total Non-Asbestos**	1
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4217.0 Liters
Analyst	MB	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number**	CQ12941
RJL Sample #	1821545CT	**Grid Openings**	10
Client Sample #	TRI-9-RA1-1	**Total Asbestos**	5
Microscope	1200 EX	**Total Non-Asbestos**	1
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4189.0 Liters
Analyst	MB	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12941
RJL Sample #	1821546CT	Grid Openings	10
Client Sample #	TRI-10-RA2-1	Total Asbestos	3
Microscope	1200 EX	Total Non-Asbestos	2
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4282.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 Lee *Group*, Inc

Count Sheet

Client Name	California Air Resources Board		
Project Number	ATC902247	RJL QA Number	CQ12941
RJL Sample #	1821547CT	Grid Openings	10
Client Sample #	TRI-11-RAN-1	Total Asbestos	2
Microscope	1200 EX	Total Non-Asbestos	1
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	6890.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 Lee *Group*, Inc

Count Sheet

Client Name	**California Air Resources Board**		
Project Number	**ATC902247**	**RJL QA Number**	CQ12941
RJL Sample #	**1821548CT**	**Grid Openings**	10
Client Sample #	TRI-12-RAS-1	**Total Asbestos**	1
Microscope	1200 EX	**Total Non-Asbestos**	0
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	6948.0 Liters
Analyst	YZ	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12941
RJL Sample #	1821549CT	Grid Openings	10
Client Sample #	TRI-13-FS1-1	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4320.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number**	CQ12942
RJL Sample #	**1821550CT**	**Grid Openings**	10
Client Sample #	TRI-14-FS2-1	**Total Asbestos**	0
Microscope	1200 EX	**Total Non-Asbestos**	0
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4318.0 Liters
Analyst	YZ	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12942
RJL Sample #	1821551CT	Grid Openings	10
Client Sample #	TRI-15-CH1-1	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4297.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12942
RJL Sample #	1821551CT	Grid Openings	10
Client Sample #	TRI-15-CH1-1	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4297.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12942
RJL Sample #	1821552CT	Grid Openings	10
Client Sample #	TRI-16-CH2-1	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	1922.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number**	CQ12942
RJL Sample #	1821553CT	**Grid Openings**	10
Client Sample #	TRI-17-WS1-2	**Total Asbestos**	0
Microscope	1200 EX	**Total Non-Asbestos**	0
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4318.0 Liters
Analyst	YZ	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12942
RJL Sample #	1821555CT	Grid Openings	10
Client Sample #	TRI-19-WSN-2	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	9741.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12942
RJL Sample #	1821556CT	Grid Openings	10
Client Sample #	TRI-20-WSS-2	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	2655.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12942
RJL Sample #	1821557CT	Grid Openings	10
Client Sample #	TRI-21-WH1-2	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4462.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number**	CQ12942
RJL Sample #	1821558CT	**Grid Openings**	10
Client Sample #	TRI-22-WH2-2	**Total Asbestos**	0
Microscope	1200 EX	**Total Non-Asbestos**	0
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4462.0 Liters
Analyst	YZ	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12942
RJL Sample #	1821559CT	Grid Openings	10
Client Sample #	TRI-23-TLR1-2	Total Asbestos	8
Microscope	1200 EX	Total Non-Asbestos	1
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4275.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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	RJL QA Number	CQ12942
Project Number	ATC902247	Grid Openings	10
RJL Sample #	1821560CT	Total Asbestos	1
Client Sample #	TRI-24-TLR2-2	Total Non-Asbestos	1
Microscope	1200 EX	Filter	CE 385 mm^2
Accelerating Volt	100 Kv	Volume	4275.0 Liters
Magnification	20000 X	Grid Opening Area	0.0092 mm^2
Analyst	YZ	Dilution Factor	1
EDS Disk			

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 QA Number	CQ12942
RJL Sample #	1821561CT	Grid Openings	10
Client Sample #	TRI-25-RA1-2	Total Asbestos	2
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4390.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number**	CQ12942
RJL Sample #	1821562CT	**Grid Openings**	10
Client Sample #	TRI-26-RA2-2	**Total Asbestos**	9
Microscope	1200 EX	**Total Non-Asbestos**	1
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4318.0 Liters
Analyst	YZ	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number**	CQ12943
RJL Sample #	1821563CT	**Grid Openings**	10
Client Sample #	TRI-27-RAN-2	**Total Asbestos**	8
Microscope	1200 EX	**Total Non-Asbestos**	2
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	8824.0 Liters
Analyst	MB	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12943
RJL Sample #	1821564CT	Grid Openings	10
Client Sample #	TRI-28-RAS-2	Total Asbestos	2
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	3631.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12943
RJL Sample #	1821565CT	Grid Openings	10
Client Sample #	TRI-29-FS1-2	Total Asbestos	1
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4234.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number**	CQ12943
RJL Sample #	**1821566CT**	**Grid Openings**	10
Client Sample #	TRI-30-FS2-2	**Total Asbestos**	1
Microscope	1200 EX	**Total Non-Asbestos**	1
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4008.0 Liters
Analyst	MB	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number**	CQ12943
RJL Sample #	1821567CT	**Grid Openings**	10
Client Sample #	TRI-31-CH1-2	**Total Asbestos**	0
Microscope	1200 EX	**Total Non-Asbestos**	0
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	4318.0 Liters
Analyst	MB	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12943
RJL Sample #	1821568CT	Grid Openings	10
Client Sample #	TRI-32-CH2-2	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4102.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12943
RJL Sample #	1821569CT	Grid Openings	10
Client Sample #	TRI-33-WS1-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4268.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12943
RJL Sample #	1821570CT	Grid Openings	10
Client Sample #	TRI-34-WS2-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4275.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12943
RJL Sample #	1821571CT	Grid Openings	10
Client Sample #	TRI-35-WSN-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	8908.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number**	CQ12943
RJL Sample #	1821572CT	**Grid Openings**	10
Client Sample #	TRI-36-WSS-3	**Total Asbestos**	11
Microscope	1200 EX	**Total Non-Asbestos**	0
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	1987.0 Liters
Analyst	MB	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number**	CQ12943
RJL Sample #	1821573CT	**Grid Openings**	10
Client Sample #	TRI-37-WH1-3	**Total Asbestos**	0
Microscope	1200 EX	**Total Non-Asbestos**	3
Accelerating Volt	100 Kv	**Filter**	CE 385 mm^2
Magnification	20000 X	**Volume**	3323.0 Liters
Analyst	MB	**Grid Opening Area**	0.0092 mm^2
EDS Disk		**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 QA Number	CQ12943
RJL Sample #	1821574CT	Grid Openings	10
Client Sample #	TRI-38-WH2-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4262.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12943
RJL Sample #	1821575CT	Grid Openings	10
Client Sample #	TRI-39-TLR1-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	2
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4253.0 Liters
Analyst	MB	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821576CT	Grid Openings	10
Client Sample #	TRI-40-TLR2-3	Total Asbestos	1
Microscope	1200 EX	Total Non-Asbestos	1
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4253.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821577CT	Grid Openings	10
Client Sample #	TRI-41-RA1-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4289.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821578CT	Grid Openings	10
Client Sample #	TRI-42-RA2-3	Total Asbestos	1
Microscope	1200 EX	Total Non-Asbestos	1
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4291.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821579CT	Grid Openings	10
Client Sample #	TRI-43-RAN-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	7241.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821580CT	Grid Openings	10
Client Sample #	TRI-44-RAS-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4619.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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	RJL QA Number	CQ12944
Client Sample #	TRI-45-FS1-3	Grid Openings	10
Microscope	1200 EX	Total Asbestos	0
Accelerating Volt	100 Kv	Total Non-Asbestos	0
Magnification	20000 X	Filter	CE 385 mm^2
Analyst	YZ	Volume	4318.0 Liters
EDS Disk		Grid Opening Area	0.0092 mm^2
		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 QA Number	CQ12944
RJL Sample #	1821582CT	Grid Openings	10
Client Sample #	TRI-46-FS2-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	1
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4282.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821583CT	Grid Openings	10
Client Sample #	TRI-47-CH1-3	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4196.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821585CT	Grid Openings	10
Client Sample #	TRI-49-BUDS-2	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4320.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821584CT	Grid Openings	10
Client Sample #	TRI-48-CH2-3	Total Asbestos	1
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4253.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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 QA Number	CQ12944
RJL Sample #	1821585CT	Grid Openings	10
Client Sample #	TRI-49-BUDS-2	Total Asbestos	0
Microscope	1200 EX	Total Non-Asbestos	0
Accelerating Volt	100 Kv	Filter	CE 385 mm^2
Magnification	20000 X	Volume	4320.0 Liters
Analyst	YZ	Grid Opening Area	0.0092 mm^2
EDS Disk		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	RJL QA Number	CQ12944
Client Sample #	TRI-50-BUDS-1	Grid Openings	10
Microscope	1200 EX	Total Asbestos	0
Accelerating Volt	100 Kv	Total Non-Asbestos	0
Magnification	20000 X	Filter	CE 385 mm^2
Analyst	YZ	Volume	4320.0 Liters
EDS Disk		Grid Opening Area	0.0092 mm^2
		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

James E. McCormack
Air Resources Engineer
Monitoring and Laboratory Division

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. _____