

**APPENDIX C-3**

**AIR MONITORING PROGRAMS**

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
TOXIC AIR CONTAMINANTS  
2003 ANNUAL REPORT**

**AIR MONITORING PROGRAMS**

<b>PM10</b>		
<p><b>Agency:</b> BAAQMD  <b>Sample medium:</b> Quartz fiber filter  <b>Frequency:</b> Every 6th day</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Mass	Bethel Island	Napa
Chemicals:	Concord	Redwood City
Ammonium	Fremont	
Chloride	Livermore	
Nitrate	Napa	
Potassium	Pittsburg	
Sulfate	Redwood City	
	San Francisco - Arkansas St.	
	San Jose - Jackson St.	
	San Jose - Tully Rd.	
	San Pablo	
	San Rafael	
	Santa Rosa	
	Vallejo	
<p><b>Agency:</b> CARB  <b>Sample medium:</b> Quartz fiber filter  <b>Frequency:</b> Every 6th day</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Mass	San Francisco - Bayview/Hunter's Pt.	None
Chemicals:		
Ammonium		
Chloride		
Nitrate		
Potassium		
Sulfate		
PAH	Fremont	None
	San Francisco - Arkansas St.	
	San Francisco - Bayview/Hunter's Pt.	
	San Jose - Jackson St.	
<p><b>Agency:</b> CARB  <b>Sample medium:</b> Quartz fiber filter  <b>Frequency:</b> One sample per month</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Elemental carbon	San Francisco - Bayview/Hunter's Pt.	None

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<b>TOXICS</b>			
<p><b>Agency:</b> BAAQMD  <b>Sample medium:</b> Canister  <b>Frequency:</b> Every 12th day</p>			
<u>Analysis</u>		<u>Site</u>	<u>Collocated site</u>
1,1,1-Trichloroethane		Bethel Island	San Francisco - Arkansas St.
1,1,2 Trichlorotrifluoroethane		Concord	
1,3-Butadiene		Crockett	
Acetone		Ft. Cronkhite	
Benzene		Livermore	
Carbon tetrachloride		Martinez	
Chloroform		Napa	
Dichloromethane		Oakland – Filbert St.	
Ethylbenzene		Pittsburg	
Ethylene dibromide		Redwood City	
Ethylene Dichloride		Richmond – 7th St.	
M/P Xylene		San Francisco - Arkansas St.	
Methyl ethyl ketone		San Jose – Jackson St.	
Methyl tertiary-butyl ether		San Leandro	
O-Xylene		San Pablo	
Perchloroethylene		San Rafael	
Toluene		Santa Rosa	
Trichloroethylene		Sunnyvale	
Trichlorofluoromethane		Vallejo	
Vinyl chloride			
<p><b>Agency:</b> CARB  <b>Sample medium:</b> Canister  <b>Frequency:</b> Every 12th day</p>			
<u>Analysis</u>		<u>Site</u>	<u>Collocated site</u>
1,1,1-Trichloroethane	Dichloromethane	Fremont	None
1,3-Butadiene	Ethylbenzene	San Francisco – Arkansas St.	
Acetone	m/p-Xylene	San Jose – Jackson St	
Acetonitrile	Methyl tertiary-butyl ether		
Acrolein	o-Dichlorobenzene		
Acrylonitrile	o-Xylene		
Benzene	p-Dichlorobenzene		
Bromomethane	Perchloroethylene		
Carbon disulfide	Styrene		
Carbon tetrachloride	Toluene		
Chloroform	trans-1,3-Dichloropropene		
cis-1,3-Dichloropropene	Trichloroethylene		

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<b>TOXICS (cont)</b>			
<b>Agency:</b>	<b>CARB</b>		
<b>Sample medium:</b>	<b>Canister</b>		
<b>Frequency:</b>	<b>Every 6th day</b>		
<u><b>Analysis</b></u>		<u><b>Site</b></u>	<u><b>Collocated site</b></u>
Acetone	Dichloromethane	San Francisco - Bayview/Hunter's Pt.	None
Acetonitrile	Ethylbenzene		
Acrolein	m/p-Xylene		
Acrylonitrile	o-Dichlorobenzene		
1,1,1-Trichloroethane	o-Xylene		
1,3-Butadiene	p-Dichlorobenzene		
Benzene	Perchloroethylene		
Bromomethane	Styrene		
Carbon disulfide	Toluene		
Carbon tetrachloride	trans-1,3-Dichloropropene		
Chloroform	Trichloroethylene		
cis-1,3-Dichloropropene	Perchloroethylene		

<b>TOTAL METALS</b>			
<b>Agency:</b>	<b>CARB</b>		
<b>Sample medium:</b>	<b>Teflon filter</b>		
<b>Frequency:</b>	<b>Every 12th day</b>		
<u><b>Analysis</b></u>		<u><b>Site</b></u>	<u><b>Collocated site</b></u>
Aluminum	Phosphorus	Fremont	None
Antimony	Potassium	San Francisco - Arkansas St.	
Barium	Rubidium	San Jose - Jackson St.	
Bromine	Selenium		
Calcium	Silicon		
Chlorine	Strontium		
Chromium	Sulfur		
Cobalt	Tin		
Copper	Titanium		
Iron	Uranium		
Lead	Vanadium		
Manganese	Yttrium		
Mercury	Zinc		
Molybdenum	Zirconium		
Nickel			

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<b>TOTAL METALS (cont)</b>		
<b>Agency:</b>	CARB	
<b>Sample medium:</b>	Teflon filter	
<b>Frequency:</b>	Every 6th day	
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Aluminum	Nickel	San Francisco - Bayview/Hunter's Pt. None
Antimony	Phosphorus	
Arsenic	Potassium	
Barium	Rubidium	
Bromine	Selenium	
Calcium	Silicon	
Chlorine	Strontium	
Chromium	Sulfur	
Cobalt	Tin	
Copper	Titanium	
Iron	Uranium	
Lead	Vanadium	
Manganese	Yttrium	
Mercury	Zinc	
Molybdenum	Zirconium	

<b>HEXAVALENT CHROMIUM</b>		
<b>Agency:</b>	CARB	
<b>Sample medium:</b>	Cellulose filter	
<b>Frequency:</b>	Every 12th day	
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Chromium VI	Fremont	None
	San Francisco - Arkansas St.	
	San Jose - Jackson St.	
<b>Agency:</b>	CARB	
<b>Sample medium:</b>	Cellulose filter	
<b>Frequency:</b>	Every 6th day	
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Chromium VI	San Francisco - Bayview/Hunter's Pt.	None

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<b>CARBONYLS</b>		
<b>Agency:</b> CARB		
<b>Sample medium:</b> Solid adsorbent cartridge		
<b>Frequency:</b> Every 12th day		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Acetaldehyde	Fremont	None
Formaldehyde	San Francisco - Arkansas St.	
Methyl Ethyl Ketone	San Jose - Jackson St.	
<b>Agency:</b> CARB		
<b>Sample medium:</b> Solid adsorbent cartridge		
<b>Frequency:</b> Every 6th day		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Acetaldehyde	San Francisco - Bayview/Hunter's Pt.	None
Formaldehyde		
Methyl Ethyl Ketone		

<b>PM2.5</b>		
<b>Agency:</b> BAAQMD		
<b>Sample medium:</b> Teflon filter		
<b>Frequency:</b> Every 6th day (summer) and every day (winter)		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Mass	Concord	(Met One BAM continuous PM2.5)
	San Francisco - Arkansas St.	Oakland - Filbert St.
	San Jose - Jackson St.	Livermore
	San Jose - Tully Rd.	San Francisco - Arkansas St.
		San Francisco - Bayview/Hunter's Pt.
		Redwood City
		San Jose - Jackson St.
		Vallejo
<b>Agency:</b> BAAQMD		
<b>Sample medium:</b> Teflon filter		
<b>Frequency:</b> Every 6th day (summer) and every 3rd day (winter)		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Mass	Fremont	See above
	Livermore	
	Redwood City	
	Santa Rosa	
	Vallejo	

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<b>PM2.5 (cont)</b>		
<p><b>Agency:</b> BAAQMD  <b>Sample medium:</b> Teflon filter  <b>Frequency:</b> Every 6th day</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Mass		Concord
<p><b>Agency:</b> EPA  <b>Sample medium:</b> Teflon filter  <b>Frequency:</b> Every 3rd day</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Mass	Cation San Jose - Jackson St.	None
Carbon	Ammonium	
Total	Sodium	
Organic	Potassium	
Elemental	Anion	
Carbonate	Nitrate	
	Sulfate	

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<b>DIOXINS</b>		
<p><b>Agency:</b> CARB  <b>Sample medium:</b> Polyurethane foam plug  <b>Frequency:</b> 20-24 days every 28-day period</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Polychlorinated dibenzo-p-dioxins	Livermore Richmond - 7th St. San Jose - JacksonSt.	None
<p><b>Sample medium:</b> Quartz fiber filter  <b>Frequency:</b> 20-24 days every 28-day period</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Polychlorinated dibenzofurans Dioxin-like polychlorinated biphenyls	Livermore Richmond - 7th St. San Jose - JacksonSt.	None
<p><b>Agency:</b> EPA  <b>Sample medium:</b> Polyurethane foam plug  <b>Frequency:</b> 24 days every 28-day period, four times/year</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Polychlorinated dibenzo-p-dioxins	Fort Cronkhite San Francisco - Arkansas St.	None
<p><b>Sample medium:</b> Quartz fiber filter  <b>Frequency:</b> 24 days every 28-day period, four times/year</p>		
<u>Analysis</u>	<u>Site</u>	<u>Collocated site</u>
Polychlorinated dibenzofurans Dioxin-like polychlorinated biphenyls	Fort Cronkhite San Francisco - Arkansas St.	None