Operational Period
Date/Time to Date/Time

California Environmental Protection Agency
Air Resources Board
Office of Emergency Response

Prepared by:
Approved by:

Air Emergency Response Sampling Plan

☐ State Responsibility Area
☐ Federal Responsibility Area

Incident: _____

Counties/District Affected: _____

CalEMA Mission Task No. _____ Description _____

ICP/EOC Location(s): _____

Situation Summary	☐ CalEMA	☐ FEMA	☐ Other

Suggested PPE	☐ Site specific health & safety plan attached

Field Staff Deployed			
Name	Contact Info	Agency	Assignment

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Responding Agencies		
Representative	Agency	Contact Information

Area of Impact and any Specific Targets of Concern:

Contaminant(s) and Health Action Levels:

Weather forecast (12-24 hrs):

General Sampling Objectives

- ☐ Gather reference sampling data within area of concern to for historical/background pollutant levels
- ☐ Establish real-time sampling within affected population center to determine contamination levels
- ☐ Establish monitoring in evacuation area for pending re-entry
- ☐ Establish air sampling to determine contaminant gradients or boundaries
- ☐ Conduct personal air sampling of on-site ERT personnel
- ☐ Site-specific sampling for targeted location (i.e., evacuation center, hospital, fire camp, etc)
- ☐ Complaint investigation; Location: _____
- ☐ Other objective: _____

Deployed Field Sampling Equipment	
Reference (network sites): **Particulate Matter** ☐ BAM 10 ☐ BAM 2.5 ☐ Gravimetric Filter: ☐ PM10 ☐ PM2.5 **Meteorology** ☐ station met **Toxics** ☐ VOC canisters (910) ☐ Metals filters (924)	**Portable (day-week):** **Particulate Matter** ☐ EBAM 2.5 ☐ 9. ! а мл **Meteorology** ☐ WEATHERPAK ☐ iMet **Toxics** ☐ VOC canisters (910) ☐ Metals filters (BGI) ☐ ! ăōŜǘƶă ó I ƛƎƘ±ƶƭκ а ƛƴƛ±ƶƭύ
Mobile (hour-day): **Particulate Matter** ☐ MicroDust **Toxics** ☐ areaRAE (PID) ☐ Canister (critical orifice)	**Survey/Confirmation (min-hour):** **Toxics** ☐ Miran (field IR) ☐ ppbRAE (PID) ☐ Colorimetric tubes ☐ Sorbent tubes ☐ Canister (grab sample) ☐ areaRAE (PID)

A. Reference (network) Sampling

Site-specific objectives:

Instrument	Pollutant	Location	Date	Sampling				Complete (initials)
				Frequency	Duration	Interval	Change*	
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			
		Loc: GPS:		☐ daily ☐ hourly ☐ other_____	☐ 1hr ☐ 24hr ☐ _____			

** Include any scheduled changes; Specify any dates.*

Comments:

B. Portable (day to week) Sampling

Site-specific objectives:

Instrument	Instr No.	Pollutant	Location	Sampling				Complete (initials)
				Frequency	Duration	Start (Day/Time)	Stop (Day/Time)	
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					

Comments:

C. Mobile (hour to day) Sampling

Site-specific objectives:

Instrument	Instr No.	Pollutant	Location	Sampling				Complete (initials)
				Frequency	Duration	Start (Day/Time)	Stop (Day/Time)	
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					
			Loc: GPS:					

Comments:

D. Survey & Confirm Sampling

Site-specific objectives:

Instrument	Pollutant	Location	Date	Duration/ Frequency	Sampling time	Tube type/ number	# Pumps	Complete (initials)
		Loc: GPS:						
		Loc: GPS:						
		Loc: GPS:						
		Loc: GPS:						
		Loc: GPS:						
		Loc: GPS:						
		Loc: GPS:						
		Loc: GPS:						
		Loc: GPS:						
		Loc: GPS:						

Comments:

Sketch/Compose map of site and any areas of concern. (Indicate major landmarks and sampling)

Legend:

Notes:

Google Map Available Online Click Here

Data Disposition					
	Reference	**Portable**	**Mobile**	**Survey/ Confirm**	**Data Location**
PM	BAM 10, BAM 2.5				**A, AQI**
		EBAM 2.5			**AN, AQI**
			MicroDust		**I**
Met	Station met				**A**
		WEATHERPAK iMet			**I** **M**
Metals and Gases	VOC canisters (910) Metals filters (924)				**A**
		VOC canisters (910) Metals filters (BGI)			**I**
			areaRAE (PID) Canister (critical orifice)		**I**
				Miran (field IR) ppbRAE (PID) Colorimetric tubes Sorbent tubes Canister (grab sample)	**I**

Code:
(M) MesoWest, http://www.met.utah.edu/mesowest/
(A) AQMIS, http://www.arb.ca.gov/aqmis2/paqdselect.php
(AN) AirNOW Tech, http://www.airnowtech.org/ [password needed]
(AQI) Air Quality Index, http://airnow.gov/index.cfm?action=airnow.fcsummary
(I) InsideERT [Contact ARB Emergency Response Coordinator]

Glossary:
Mobile – equipment installed to run for a period of days to weeks
Pollutant – contaminant of concern, including toxic gases, particulates
Portable – field equipment for sampling durations of hours to days
Reference – networked monitors (permanent) used for ambient air quality measurements; may be during emergencies to determine background or "reference" concentrations of toxics, metals, and PM
Sampling duration – sample averaging time or run time per sample (in min, hrs, or days per sample)
Sampling frequency –no. of samples per unit time
Sampling interval – elapsed time between samples
Survey & Confirm – field equipment, usually handheld, for instantaneous readings or grab samples

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Field Staff Deployed			
Name	Contact Info	Agency	Assignment