

The Bucket Brigade



Organizing a
Community
Campaign

Blue Ridge
Environmental
Defense League

Where Does Air Pollution Come From?

- **Industrial pollutants are emitted by:**
 - chemical plants
 - dry cleaners
 - asphalt plants
 - paper mills
 - incinerators
 - refineries, etc.

Why a Bucket Brigade?

- ***Bucket Brigades train teams of community volunteers to seek out and eliminate local sources of poisonous air emissions.***

The Bucket Brigade Program

- The Bucket Brigade allows residents living near emission sources to take samples whenever pollution occurs, even at night or on weekends when state agencies typically cannot respond.
- The Bucket Brigade gives citizens' groups a tool to check out the air wherever you live.
- It's like an environmental community watch program.

What is the Bucket?

- The Bucket is our patented device for capturing a sample of air for laboratory analysis in three minutes.
- The EPA-approved grab sampling Bucket is a reliable yet economical way to measure air pollution.

The Bucket and Tedlar Sample Bag



What Does It Measure?

- **101 air pollutants are detected by the device including:**

dichloromethane

hydrogen sulfide

perchloroethylene

vinyl chloride

toluene

benzene

The Method

- **1-Residents living near air pollution sources form a neighborhood team.**
- **2-Residents do neighborhood surveillance, record information about wind direction and odors.**
- **3-Residents learn to operate the patented Bucket sampling equipment.**
- **4-Residents take a sample of toxic air pollution.**
- **5-Residents send the sample to an EPA-certified laboratory.**
- **6-Lab does tests and sends results to residents and BREDL.**
- **7-BREDL sends results to expert for study.**
- **8-Residents release results.**

Four Tools of Gathering Evidence

- **1 Log Book**
Residents write down what they see, hear, and smell.
- **2 Complaint to public officials**
A written request for action by state officials.
- **3 Camera**
Pictures or video which are evidence of what happened.
- **4 Bucket air sampling device**
A method of collecting a sample of air for laboratory testing.

Always keep copies of all your evidence in a safe place!

The Price Tag

- Equipment costs \$250 each
The bucket can be re-used many, many times if properly cared for.
- Laboratory from \$200-\$450 each
Depending on the number of toxic compounds analyzed.
- Overnight shipping \$15.
To send the sample to the lab.
- A biannual calibration test costs about \$400.
To check on the accuracy of the equipment
- **To reduce costs gather as much information as possible *before* taking your first sample.**



Performance Analytical Inc.
Air Quality Laboratory

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Canoga Park, California 91301
Phone 818 709-1139
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Chain of Custody Record Analytical Services Request

Client/Project Name				Address/Phone				ANALYSES				PAI Project No.	
Project Location				Client Project No.									
Contact		Sampler (Signature)			P.O. No.								
Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample					Expected Turnaround Time	Remarks			
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time		
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time		
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time		
Disposal Method						White Copy : Accompanies Samples Yellow Copy : Sampler							
Disposed by: (Signature)				Date	Time								

Young pollution sleuths and community activists fight for healthier air.



Newsweek August 11, 2008

*One person speaking alone
may not be heard, but many
people speaking with one
voice cannot be ignored.*

Janet Marsh, May 1984



The Blue Ridge Environmental Defense League

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