



Lead Industries Association, Inc.

286 Madison Avenue • New York, N.Y. 10017 • Tel. (212) 878-4750 • Fax (212) 684-7714

BY FAX

October 4, 1991

TO: Smelter Blood Lead Survey Central Committee

FROM: Jeff Miller

RE: DRAFT SMELTER BLOOD SURVEY PROGRAM

Attached is a draft program which outlines our cooperative program to organize and conduct blood lead surveys around primary and secondary smelters in the U.S. We would like to schedule a conference call for 10:30a.m. (EDT) on Wednesday, October 9 to discuss the contents and our follow-up action. Please advise Karen, my secretary, if you are unable to participate or if you will be at a different location than your normal office. Thank you for your assistance and consideration to this important matter.

JTM/kb

cc: J.A. De Paul
 R.J. Muth
 J.F. Smith

Post-It® brand fax transmittal memo 7571		# of pages
To: KOB STEINWURTZEL	From: JEFF MILLER	
Co: ABR	Co: LIA	
Dept:	Phone #	
Fax: 802 662 2799/2797	Fax #	

CENTRAL COMMITTEE MEMBERS:

- | | |
|---------------------------------------|--------------------------------|
| Gerry Dumas - RSR | Don Robbins - Asarco |
| Jeff Miller - LIA | Gene Shippen - Penn. Physician |
| Patrick Phillips - Missouri Physician | Rob Steinwurtzel - ABR |
| Bob Putnam - Putnam Env. Servs. | Dan Vornberg - Doe Run |



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- Central Committee will oversee the development of the program, its administration, the hiring of the laboratories, the preparation of the reports and guidance to the local committees with regard to public relations and other matters.
- Members of the central committee:

Dan Vernberg	The Doe Run Company
Don Robbins	ASARCO, Inc.
Gerry Dumas	RSR Corp.
Rob Steinwurtzel	ABR
Jeff Miller	LIA
Bob Putnam	Public Health Consultant
Gene Shippen	Physician
Patrick Phillips	Missouri Physician

2. Local Committee

- Each participating smelter will appoint a company representative to be a survey project manager and will organize a Local Committee that will implement the survey within that community. The Local Committee might include local and/or state health officials, smelter representatives, local political leaders, as well as community representatives if appropriate. This committee would be responsible for coordination of the sampling, informing and obtaining permission where appropriate of local officials and the public, individual and local release of the survey results, and coordination with the Central Committee.

C. COLLECTION OF SAMPLES

1. Population Surveyed

- The survey would target four categories: 100% of the 6 - 72 month old children, expectant or nursing mothers, or women planning to become pregnant that live in the target area. In practice something less than 100% will be sampled



although it has been shown that participation above 90% is possible.

- The target area for Primary smelters is a 1.5 mile radius around the main stack. The target area for secondary smelters is a 1.0 mile radius around the main stack. These distances are suggested because they are typical zones of significant impact based on ambient air modeling. These may be varied somewhat for specific geographic reasons, or if a study has already been completed in the area. The study area should not be expanded simply to include a larger population, as this will skew the results. Smelters without any population within the specified radius will simply be reported as such.
- Participation is premised on the voluntary cooperation of the individual smelters and the communities in which they operate.

2. Control Populations

- Two or more control communities should be utilized to represent urban and rural controls in order to validate methods on non-impacted areas and to provide a loose frame of reference of current background blood lead levels.

3. Approach to Sampling

- Sampling may be conducted in one of two ways; either door to door sampling or by visits to a clinic within the sample area. Sampling should be done by a team, including a public health representative, a smelter representative, and a qualified phlebotomist. (Street fair sampling is dismissed as unrepresentative. School sampling does not concentrate on the correct target age groups.)
- The months, days, times of sampling will be determined by the Local Committee. The procedures for the sampling will be developed by the Local Committee. Samples should be by venous puncture. A questionnaire should be administered at the time of the sampling (see sample Attachment I).

D. ANALYSIS OF SAMPLES**1. Selection of Laboratory**

- A central laboratory will be selected by the Central Committee with a second laboratory utilized to run quality control on the first (10% of the total number of samples should be sent to the second lab.)
- The analytical method proposed should be part of the selection process of the laboratories. It should be decided whether a specific method should be dictated. The analytical protocol will be a stand alone document and the laboratories should participate in its development.

2. Quality Assurance

- Quality control should be part of the analytical protocol.
- The laboratory should provide sampling vessels, mailing systems and instructions to the participants in the program to insure uniformity and assure quality.

E. RESULTS**1. Presentation of Nationwide Results**

- Local Committee will provide results to the Central Committee for preparation and release of a single Nationwide Agglomerated Report.

2. Use and Release of Local Results

- Local release of sampling results will be controlled by the Local Committee.
- Individual results will not be released to the public.
- Individual privacy should be protected by confidentiality agreements or representations with families of the cohort.

3. Follow-up

- Any "elevated" blood lead results will be referred for follow-up to the local health department on the basis of CDC guidelines.



F. COSTS

1. Health Departments

- Health Departments should pay for their representatives on the Local Committees, and may donate phlebotomists, clerical help, office space, furniture, or equipment. Health Departments may also be asked to donate funds for other local costs.

2. Smelter

- Smelters should expect to pay all other costs, including sampling, lab work, labor, rents, advertising.

3. Central Committee

- Costs of the members will be borne by their respective organizations.

G. LOCAL OUTLINE OF THE PROGRAM

A. Smelter Activities

1. Identify a Survey Project Manager and additional smelter staff as needed.
2. Solicit the cooperation and assistance of the local, county and/or state health departments, community leaders, political, and school officials, etc.
3. Establish a Local Committee of company, medical, health and other community elements.

B. Local Committee Activities

1. Define the study area and control areas.
2. Select either the door to door sampling protocol or the clinic visit protocol.
3. Design the sampling campaign and think through the details.
4. Plan for the dissemination of the results.