

LETTER OF TRANSMITTAL

91 JAN 23 AM 10:35 ENVIRON

To Department of Environmental Health
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

Date 1/21/91

Attention: Mr. Larry Seto

Project Title: Curoco Site Remediation

Environ Contract Number: 03-1332D

Enclosed are: 1 Copies of
[X] Technical Reports
Data Reports
[X] Proposals
Other

Title or Description of Enclosure: Post-Excavation Sampling and Analysis Plan;
Underground Storage Tank Closure Status Report;
UST Cleanup Fund Cover Letter

For your: [X] Use [X] Information
Approval
[X] Files Other

Material forwarded by: Messenger Federal Express
[X] First Class Mail United Parcel Service
Certified Mail Special Delivery

Copies to:

By Robert A. Ellgas
Robert A. Ellgas, Ph.D.
Project Manager

White - Original
Yellow - File
Pink - Originator

January 16, 1991

**ENVIRON**

Mr. Ron Mayo  
Curoco Steel Systems  
536 Cleveland Avenue  
Albany, CA 94710

Re: **Post-Excavation Sampling and Analysis Plan, Curoco Steel Systems, 536 Cleveland Avenue, Albany, California, ENVIRON Contract No. 03-1332D**

Dear Mr. Mayo:

ENVIRON proposes the following soil sampling and analysis plan to demonstrate that the proposed excavation of soils along the west side of the subject site, between the back of the existing building and the railroad tracks, has removed sufficient soil affected by paint residue and associated concentrations of chromium (Cr), lead (Pb), and zinc (Zn). This sampling plan follows federal guidelines established in EPA Manual SW-846, dated November 1986.

### **Sampling**

ENVIRON will collect a total of 20 soil samples for laboratory analysis within the base and sidewalls of the initial excavation. If laboratory analysis of any sample indicates any total metals (Cr, Pb, and/or Zn) concentrations greater than the corresponding Total Threshold Limit Concentration (TTLC), then an additional sample will be required in that particular sample location after additional soil removal. Also, if laboratory analysis of any sample indicates a total Cr, Pb or Zn concentration greater than 10 times the corresponding Soluble Threshold Limit Concentration (STLC) when established background concentrations are subtracted from these total concentrations, then an additional sample will be required near that sample location after additional soil removal. Following removal of the top 6 inches of soil from the area designated as having some metals concentrations likely greater than the TTLC (see Figure 1), the first 6 samples will be collected and analyzed prior to excavation to the proposed final depth. Five of the six samples were collected on January 14, 1991. A total of 8 soil samples will be collected from the proposed excavation base and a total of 6 soil samples will be collected from the excavation sidewalls. These samples will be analyzed prior to excavation backfilling or additional excavation, if necessary. All sampling locations are depicted on a map of the proposed excavation (Figure 1).

The sampling locations and sampling densities were selected using chemical analysis data obtained during the site investigation, as well as observations on site conditions. A higher density of samples is proposed to be collected in areas that are likely to contain higher metals concentrations, but the specific location of each sample will be such that no earlier sample locations are duplicated. Specific areas with higher proposed sampling densities are two small (less than 6-inch deep) roof runoff ditches originating at the

building downspouts and running towards the railroad tracks, and the area near the building under those soils which are designated on Figure 1 as likely having some metals concentrations greater than the TTLC.

Additional soil samples in the initial excavation beyond the proposed 20 samples will be collected from any soil which remains within the excavation limits adjacent to the building foundation. This soil, which may at your option remain for the purpose of foundation stability, will be sampled at a density related to the slope face surface area as well as the soil's likelihood of higher metals concentrations.

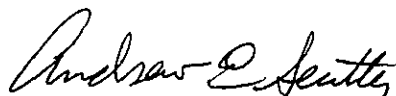
The soil samples will be collected with a hand-held sample tool which holds a 2-inch diameter by 6-inch long brass tube. The sampler will be driven into undisturbed soil at the base or in the sidewall of the excavation. After retrieving the sampler, the brass tube containing the soil will be removed, capped with Teflon™ film and plastic caps, sealed with tape, labeled, and placed in an iced cooler for transport to the analytical laboratory under strict chain-of-custody.

### Laboratory Analysis

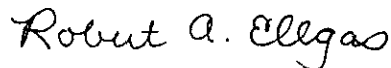
All soil samples will be analyzed at Curtis & Tompkins, Ltd. in Berkeley, California, a California Department of Health Services accredited hazardous materials testing laboratory. Analysis will be for total Cr, total Pb, and total Zn, and will be performed on a 24-hour turnaround basis. ENVIRON will immediately notify you and the contractor performing the excavation of the analytical results so as not to delay work on the project.

ENVIRON appreciates this opportunity to be of service. If you have any questions concerning this sampling and analysis plan, please do not hesitate to call either of the undersigned.

Sincerely,



Andrew E. Seutter  
Senior Associate Geologist

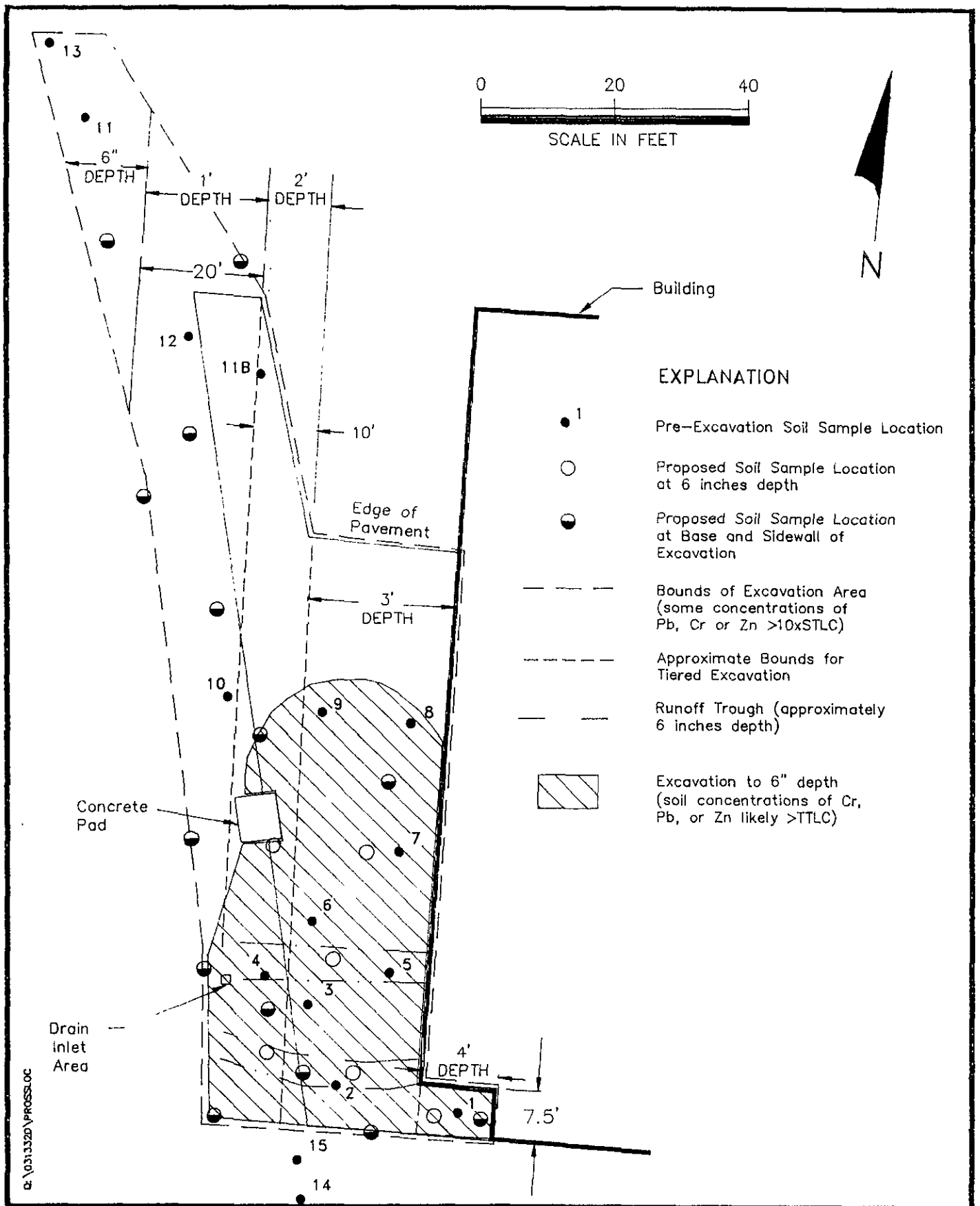


Robert A. Ellgas, Ph.D.  
Manager

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Attachment



**EXPLANATION**

- 1 Pre-Excavation Soil Sample Location
- Proposed Soil Sample Location at 6 inches depth
- ◐ Proposed Soil Sample Location at Base and Sidewall of Excavation
- - - - - Bounds of Excavation Area (some concentrations of Pb, Cr or Zn >10xSTLC)
- - - - - Approximate Bounds for Tiered Excavation
- - - - - Runoff Trough (approximately 6 inches depth)
- ▨ Excavation to 6" depth (soil concentrations of Cr, Pb, or Zn likely >TTLc)

**ENVIRON**  
 Counsel in Health and Environmental Science

**Proposed Initial Soil Sampling Locations and Excavation Areas**  
 Curoco Steel Systems  
 Albany, California

Figure  
**1**