

Attachment 6

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February 9, 2005
Project 6257.PRO

Mr. Luis Mendez
Senior Planner
Santa Cruz County Regional Transportation Commission
1523 Pacific Ave
Santa Cruz, California 95060

Subject: Scope of Services and Cost Estimate
Additional Phase II Environmental Investigation
Santa Cruz Branch Line
Santa Cruz, California

Dear Mr. Mendez:

At your request, Geomatrix Consultants, Inc. (Geomatrix), has prepared this scope of services and cost estimate for the Santa Cruz County Regional Transportation Commission (SCCRTC) to perform additional Phase II environmental investigation activities along portions of the Santa Cruz Branch Rail Line (Branch Line) site in Santa Cruz County, California. The objective of the additional sampling program is to collect environmental data to provide non-targeted, general sampling along sections of the Branch Line that would not be addressed in the targeted Phase II sampling program outlined in Geomatrix's *Work Plan for Phase II Environmental Site Assessment* dated February 11, 2004. A description of the proposed work and our estimated cost to perform the work is discussed below.

SCOPE OF WORK

Geomatrix will perform a systematic Phase II soil sampling investigation of five 1-mile sections of the Branch Line. The systematic sampling approach will consist of categorizing the Branch Line into four categories based on land use primarily surrounding the rail line. A site reconnaissance will be performed to evaluate areas of the existing rail line for the purpose of identifying the five 1-mile sections that will be designated for sampling. Site reconnaissance will be a combination windshield survey and direct on-property observations, as appropriate depending on the area that the Branch Line traverses, and general observations, and possibility of on-site or off-site impacts to the Branch Line. The 1-mile sections of rail line will be selected based on the type of land use surrounding the rail line and will include one section surrounded by mostly industrial properties, one section surrounded by primarily residential homes, two non-contiguous sections surrounded primarily by agricultural lands, and one section surrounded by open, undeveloped land. The industrial section will be located along the current most heavily industrialized section of the rail line. Based on Geomatrix's March 1997 *Preliminary Site Assessment Davenport and Santa Cruz Branch Lines* report, it is anticipated that this section will be located in Watsonville. Additionally, it is anticipated that

Geomatrix Consultants, Inc.
Engineers, Geologists, and Environmental Scientists

11-28



Mr. Luis Mendez
Santa Cruz County Regional Transportation Commission
February 9, 2005
Page 2

one of the agricultural sections will be located north of Santa Cruz and one south of Santa Cruz in the Watsonville area where crops and farming practices may differ.

Prior to conducting field sampling activities, the appropriate permits will be obtained, Underground Service Alert (USA) will be notified, fiber optic lines will be cleared through UPRR (note that clearing of utilities through UPRR is a requirement for all right-of-way work), and boring locations will be cleared by a private utility locator. All borings will be continuously cored using direct-push drilling and the lithology will be logged by Geomatrix field personnel.

Within each of the residential, agricultural, and undeveloped 1-mile sections identified during the site reconnaissance, four soil borings will be advanced. Within the 1-mile industrial section, eight soil borings will be advanced. Soil samples will be collected from each boring at depths of 0.5, 1.5, and 3.0 feet below ground surface (bgs). Soil samples will be sealed with Teflon[®] sheets, plastic end caps, and silicon tape, and labeled with a unique sample identifier designating the boring location and depth (e.g., SB-2-2.0 for the sample from boring SB-2 from 2 feet bgs). The soil samples will be placed in an ice-filled cooler pending delivery to a state-certified analytical laboratory, under Geomatrix chain-of-custody procedures.

The soil sample will be submitted for the analysis of chemicals typically associated with railroad operations, including selected metals (arsenic, nickel, lead, zinc, and chromium) using U.S. Environmental Protection Agency (EPA) Method 6010B; for polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8270C SIM; and for total petroleum hydrocarbons (TPH) quantified as diesel (TPHd) and motor oil (TPHmo) using EPA Method 8015M. In addition, soil samples from the 1-mile agricultural sections will be analyzed for organochlorine pesticides using EPA Method 8081A.

Analytical testing will be conducted using a phased approach. Initially, only the shallow soil samples collected from 0.5-foot bgs will be analyzed. If no constituents are detected or are detected at concentrations below applicable regulatory screening levels, the deeper soil samples will not be analyzed. If constituents are detected at concentrations greater than applicable regulatory screening levels, Geomatrix will inform the laboratory to analyze the deeper samples.

This Scope of Work assumes that Geomatrix will incorporate the results of this investigation into the Phase II report that will be prepared for the site under a separate scope of work presented in Geomatrix's *Work Plan for Phase II Environmental Site Assessment* dated February 11, 2004. If SCCRTC would like the results of this investigation presented in a stand alone document, costs would increase.

11-29



Mr. Luis Mendez
Santa Cruz County Regional Transportation Commission
February 9, 2005
Page 3

ESTIMATED SCHEDULE AND BUDGET

We anticipate that field activities can begin approximately four weeks after SCCRTC obtains the right-of-entry agreement from UPRR and upon approval of this work plan, pending subcontractor availability. We have assumed that SCCRTC will coordinate access to the site. We have assumed the field work associated with soil sampling can be completed in 1 week.

Estimated costs associated with this scope of work are summarized below on a time-and-materials basis in accordance with our Independent Contractor Agreement with SCCRTC. A range of costs is presented because of the phased approach to analytical testing by the laboratory.

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|------------------------------|----------------------------|
| ▪ Geomatrix Costs | \$13,500 |
| ▪ Laboratory Costs | \$9,000 - \$26,500 |
| ▪ Subcontractor Costs | <u>\$7,300</u> |
| Total Estimated Costs | \$29,800 - \$47,300 |

We appreciate the opportunity to continue to provide our environmental consulting services to SCCRTC and are available to implement the work described in this scope of services. We understand SCCRTC will formally authorize this work through an amendment to our existing contract. Please do not hesitate to call if you have any questions or require additional information.

Sincerely,
GEOMATRIX CONSULTANTS, INC.

Matt Goerz
Project Scientist

Elizabeth Wells, P.E.
Senior Engineer

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cc: Susan Gallardo, Geomatrix Consultants, Inc.

11-30