

Memorandum

Date: June 5, 2015

File: 03-Sac-50
PM 0.2-5.3
EA 3F360
EFIS 0312000216

To: Michael Sullivan
Design Engineer

From: Rajive Chadha
North Region Office of Environmental Engineering (NROEE) - South

Subject: Updated Initial Site Assessment

It is understood that this project proposes to add car pool lanes along the above project limits. Project work includes median decking at eleven structures, widening on/off ramps along the above project limits, adding sound walls. New R/W is required for this project, all excess soils will be relinquished to the contractor and the existing traffic stripe will be grinded off along with the roadway.

The review for potential hazardous waste impacts involved the following;

1. A review of the project plans and aerial mapping;
2. Discussions with the design engineer;
3. A review of Geotracker (a hazardous waste database of contaminated sites);
4. A review of previous hazardous waste consultant studies performed within these project limits;

Based on this review, the potential for hazardous waste exists with respect to the following;

1) Lead-contaminated soil may exist within and near our R/W due to the historical use of leaded gasoline, leaded airline fuels, waste incineration, and et-cetera. The areas of primary concern in relation to highway facilities are soils along routes with historically high vehicle emissions due to large traffic volumes, congestion, or stop and go situations. Since soil disturbance and relinquishment to the contractor will occur, an Aerially Deposited Lead (ADL) site investigation is required. This site investigation will determine if hazardous soils exist and what actions, if any, will need to occur during construction.

2) Groundwater and soil contamination may exist where new footings for the bridge widening will occur. As such, a site investigation is required to determine if hazardous soils and groundwater exists and what actions, if any, will need to occur during construction.

3) Since bridge expansion joint materials and rail shims will be removed during construction, a bridge asbestos survey is required to determine if asbestos is present.

4) Hazardous chemicals are known to exist in the wood posts associated with metal beam guardrail. As such, if wood posts are removed, they shall be disposed of in accordance with Standard Special Provision 14-11.09 (Treated Wood Waste).

5) The potential for hazardous waste exists with the levels of lead and chromium in the yellow color traffic stripes. Since these traffic stripes will be grinded off along with the roadway or dug out, the levels of lead and chromium will become non-hazardous. These grindings (which consist of the roadway material and the yellow color traffic stripes) shall be removed and disposed of in accordance with Standard Special Provision 15-1.03B (Residue Containing High Lead Concentration Paints) which requires a Lead Compliance Plan (LCP). Non-hazardous levels of lead are known to exist in the white traffic striping. As such, these grindings shall be removed and disposed of in accordance with the same specification. For budgetary purposes, you can assume a cost of \$ 2,000 (Use BEES item code 190110).

6) A Hazardous Materials Disclosure Document (HMDD) will be required for attachment to the Certificate of Sufficiency (COS) before any right of way can be acquired. To provide the HMDD, Design will need to provide our office with final R/W mapping as soon as it is available.

Since construction of the proposed project cannot avoid disturbing soils a Site Investigation (SI) is required. This site investigation will also include an asbestos survey to determine if asbestos is present in the eleven bridge structures. A SI needs to be requested by the PE or PM and takes 2 to 5 months to complete since a task order has to be prepared, approved, and issued to a contractor. The contractor is then required to prepare work plans, health and safety plans, conduct site investigations, and prepare site investigation reports for Caltrans review and approval.

The following support costs will be needed for this project;

Unit 0386 NROEE (Hazardous Waste) Resource Hour Needs			
ISA	Site Investigation	Specs Prep	Functional Support
165.10.50	165.10.50	230.35	285.10
20	120	8	4

Should any project changes occur, another review will be required. Should you require further information or have any questions, I can be reached at (530) 741-4295.

- c.c. Ken Lastufka, Environmental Co-ordinator
- Sutha Suthahar, Project Manager
- Douglas Coleman, NROEE - South