

Santa Monica-Malibu Unified School District

**Removal Action Workplan
Malibu Middle and High School
Campus Improvements Project**

30215 Morning View Drive
Malibu, California

August 5, 2010

1. Introduction

This Removal Action Work Plan (RAW) has been prepared by ARCADIS U.S., Inc. (ARCADIS, formerly LFR an ARCADIS Company) on behalf of the Santa Monica-Malibu Unified School District (SMMUSD) for areas of pesticide- and polychlorinated biphenyl (PCB)-affected soils within the Malibu Middle and High School campus located at 30215 Morning View Drive, Malibu, California (Figures 1 and 2). Specifically, environmental assessment activities performed by ARCADIS (LFR 2009a, 2009c; ARCADIS 2010) have focused on 20 proposed improvement areas located within the boundaries of the Malibu Middle and High School campus (Figure 3). For the purposes of this RAW, the Site consists of one area of pesticide-affected soils and multiple areas of PCB-affected soils totaling approximately 1,200 cubic yards (yds³) near and/or within improvement Areas 3 and 9 through 13 (Figure 3).

SMMUSD retained ARCADIS to prepare this RAW to document the methods to be used to remediate pesticide- and PCB-affected soils identified on the Site during the Preliminary Environmental Assessment (PEA) previously conducted by ARCADIS (ARCADIS 2010). This RAW has been prepared in a manner consistent with the technical procedures approved by the Department of Toxic Substances Control (DTSC).

Information on past Site uses and existing Site conditions was presented in the document titled "Phase I Environmental Site Assessment, Malibu Middle and High School Campus, 30215 Morning View Drive, Malibu, California" (Phase I ESA) dated October 1, 2009 (LFR 2009a).

Based on the information presented in the Phase I ESA, a surface soil sampling investigation was conducted to establish whether the recognized environmental conditions (RECs) identified in the Phase I ESA posed a significant threat to human health or the environment at the Site, and to evaluate the potential risk, if any, to human health or the environment. Initial laboratory soil sample analysis indicated the presence of pesticides and PCBs at the Site. PCBs were not originally considered to be an REC, based on the ESA review. Additional soil samples were collected and analyzed to determine the extent of pesticide- and PCB-affected soils. ARCADIS presented the results of the soil investigation and an associated human health risk screening evaluation in the document titled "Preliminary Environmental Assessment Report, Malibu Middle and High School, Campus Improvements Project, 30215 Morning View Drive, Malibu, California," dated June 14, 2010. The PEA was prepared to satisfy typical DTSC requirements for the environmental assessment of the Site such that it can be redeveloped with new school facilities.

The human health risk screening evaluation performed by ARCADIS during the PEA indicated that pesticides and PCBs were present in shallow Site soils at concentrations that presented an unacceptable health risk.

This RAW was prepared using data collected during the environmental assessment, and identifies and evaluates viable remedial alternatives for the affected soil and the elimination of exposure pathways.

Santa Monica-Malibu Unified School District

**Removal Action Completion
Report - Malibu Middle and High
School Campus Improvements
Project**

30215 Morning View Drive
Malibu, California

June 12, 2012

the results of the risk assessment, there does not appear to be a significant threat to public health or the environment with regard to COPCs following the removal activity.

Additionally, based on analytical results for the stockpile samples, all excavated soil was deemed acceptable for transport off-site under non-hazardous soil classification. Approximately 1,158 tons of soil was transported to Chiquita Canyon Landfill in Castaic, California.

9. Limitations

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ARCADIS and the SMMUSD, the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No certification, warranty, or guarantee, express or implied, is intended or given beyond that expressly made herein. ARCADIS makes no representation as to the accuracy or completeness of information prepared by other parties not under contract to ARCADIS. ARCADIS is unaware of any material inaccuracies of the information relied upon by ARCADIS. This report is expressly for the sole and exclusive use of the SMMUSD, California Department of Education, applicable landfill or disposal site, RWQCB, and DTSC for a particular purpose. Only the SMMUSD and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when ARCADIS' investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project Site may vary from those at the locations where data were collected. ARCADIS' ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in environmental investigation conclusions cannot reasonably be achieved.

Nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.