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## 1.0 EXECUTIVE SUMMARY

The presence of residual soil and dissolved ground water hydrocarbon contamination has been documented on the site. Highest levels of contaminants are present five feet to the south and west of the former underground storage tank location. Significantly lower levels are present in soils approximately 50 feet southwest of the former tank while ground water contamination is concentrated in relatively close proximity to the former tank as well. The vertical extent of soil contamination is restricted to the upper 12.5 feet while only the upper portion of the shallow aquifer is contaminated.

## 2.0 INTRODUCTION

This investigation report has been prepared in response to a Statement of Work (SOW) "Contract F42650-89-0033 , Task 3, Underground Storage Tank Release Response" received by Engineering-Science, Inc. (ES) on 13 September 1990. All guidance provided by the SOW, conversations with Hill Air Force Base Environmental Management personnel (EM), guidelines set forth in the document "Statement of Work, Infinite Delivery Services, Environmental Engineering and Planning, Hill AFB, UT", and by the work plan prepared by ES on 18 October 1990 have been followed where applicable.

### 2.1 SITE DESCRIPTION

The site is located in the west area of Hill Air Force Base (HAFB, see Figure 1). More specifically, the site is immediately north of Building 1141, located at the convergence of Aspen Road and 6th Street (Figure 2). Surrounding buildings are used for maintenance, motor vehicle offices, and for storage of U.S. Air Force railroad engines. Underground utilities are located on and adjacent to the site property (Figure 2).

Building 1141 is used by the Air Force for small vehicle maintenance. An 18,000-gallon underground storage tank (UST) was located in the subsurface immediately northwest of Building 1141; this UST was removed in December 1989. The location of the former UST is shown on the site map provided as Figure 2.

An excavation permit was obtained from DEMRE/RedStakes on 19 October 1990 prior to beginning any field work.

#### 2.1.1 Geologic Setting

Hill Air Force Base is located along the Wasatch Front of northern Utah (Figure 3). The area west of the Wasatch Front was the site of prolonged marine basinal and shallow water sediment accumulation during earliest Precambrian time through the Paleozoic Era. Structural deformation and limited depositional events persisted until Pleistocene times when lakes inundated the Wasatch Front.