



FUGRO WEST, INC.

January 8, 1996
Project No. 9437-1310

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Ms. Eva Chu
Hazardous Materials Specialist
Alameda Health Care Services
Environmental Protection Division
1131 Harbor Bay Parkway, #250
Alameda, California 94502-6577

Proposed Soil Remediation
Housing Authority of the City of Alameda
1916 Webster Street
Alameda, California

Dear Ms. Chu,

At your request, Fugro West Inc. (Fugro) has prepared this letter to inform the Alameda County Department of Environmental Health (ACDEH) of the proposed soil remediation at the Housing Authority of the City of Alameda (AHA) facility located at 1916 Webster Street in Alameda, California. The objective of the proposed corrective action is to sufficiently excavate and dispose of the existing gasoline-impacted soil and obtain site closure.

BACKGROUND

The Subject Property consists of a warehouse building and adjacent parking lot located at the southeast corner of Webster Street and Atlantic Avenue in a commercial area of Alameda, California. A 280-gallon underground storage tank (UST) was removed from the site during July and August 1986. Environmental investigations conducted to determine the extent of hydrocarbon-impacted soils included a series of soil borings and the installation of six ground water monitoring wells. Hydrocarbon-impacted soil to the north and east of the former UST were excavated in September 1986 and in March 1994.

Current quarterly monitoring data indicates that groundwater in the vicinity of the former UST excavation is impacted with petroleum hydrocarbons as gasoline. According to previous soil data, hydrocarbon-impacted soils remain in the area south of the former UST and may extend beneath the building. It is likely that this impacted soil is the source of hydrocarbons detected in the groundwater beneath the Subject Property.

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SCOPE OF WORK

Fugro has based the Scope of Work on tasks required to excavate and dispose of the existing hydrocarbon-impacted soils from the area south of the former UST. Soil removal will require excavation up to and along the exterior wall of the warehouse building and beneath the area currently occupied by the interior warehouse offices.

The approach for the removal of the soil includes limited demolition of the interior warehouse offices, a 60-foot exterior wall section and portion of the exterior canopy. This approach will enable unobstructed access to the remaining hydrocarbon-impacted soils. The alternative to this approach would involve underpinning the support columns and exterior walls prior to excavation. Underpinning the structure is more expensive and could result in potentially unsafe working conditions.

The estimates of excavation area and soil quantities are based on soil sample analysis performed by others in previous investigations at the subject property. Fugro has estimated that an area encompassing approximately 832 square feet will be excavated to a maximum depth of 6 feet bgs. Excavated soils will be transported off-site for landfill disposal. ~200 cy

Fugro will conduct confirmation soil sampling and project oversight during excavation activities. A mobile laboratory will be on-site to analyze confirmation soil samples and provide results within an hour after sampling. Utilizing an onsite laboratory will increase the efficiency of the excavation effort and reduce equipment down-time. Confirmation soil samples will be analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and benzene, toluene, ethylbenzene and xylenes (BTEX). The excavation will be backfilled and compacted with clean, imported Class II aggregate base material.

Groundwater at this site is approximately 4 feet below ground surface (bgs). The proposed soil excavation is expected to extend to five or six feet bgs and thus, dewatering of the excavation will be necessary. Groundwater will be temporarily stored on-site in above ground storage tanks pending analysis and off-site disposal.

Following the completion of the above tasks, Fugro will prepare a report documenting the soil and groundwater remediation activities and recommendations for site closure. This report will be submitted to the ACDEH for review and comment. The report will include:

- Descriptions of excavation and sampling procedures
- Laboratory analytical data and data tables
- Scaled diagrams of excavation area and sample locations
- Photographs of field operations
- Copies of waste soil disposal manifests



PROJECT COMPLETION SCHEDULE

This schedule is based on the estimated duration of the individual tasks. We estimate that the field operations will require three weeks. Approximately four weeks after the completion of the field work, the finalized report will be submitted to the ACDEH for review and comment.

Task	Week of Completion ^(a)
1 - Coordination/Regulatory Contact /Subcontractor Mobilization	2 ^(b)
2 - Partial Structure, Concrete Slab and Asphalt Demolition	3
3 - Construct Closure for Existing Tenant's Door Opening	3
4 - Dewatering and Above Ground Storage	4
5 - Impacted Water Disposal	5
6 - Hydrocarbon-Impacted Soil Excavation, Profiling, Disposal and Replacement and Backfilling with Clean Import Fill	5
7 - Closure Report	9
Site Closure Granted (estimated)	19

Notes:

(a) Week of Completion represents the number of weeks from the start of the project. Assume that Week 0 is the week Fugro receives the AHA Notice to Proceed.

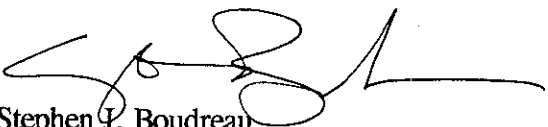
(b) Asbestos survey will be performed at the beginning of week 1 to allow for ten day notification as required by the BAAQMD. This schedule may change if abatement of asbestos containing materials is required.

If you have any additional questions or comments regarding this letter, please contact me or Mr. Boudreau at (415) 296-1041.

Sincerely,

FUGRO WEST, INC.


Peter B. Hudson.
Project Geologist


Stephen J. Boudreau
Regional Branch Manager
Senior Environmental Engineer

cc: Eileen Duffy, Housing Authority of the City of Alameda