Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

January 17, 1991

Clayton Project No. 33298.00

Ms. Cynthia Chapman
ALAMEDA COUNTY HEALTH DEPARTMENT
Hazardous Materials
80 Swan Way, Suite 200
Oakland, CA 94621

Dear Ms. Chapman:

Enclosed is Clayton's Work Plan to protect underlying soils during soil aeration at the Southshore Carwash, 2351 Shore Line Drive, Alameda, California.

After completion of the work plan, we discussed it in a meeting with Harsch representatives, representatives of Texaco, and Mr. Murray Stevens, and have decided to include analysis for purgeable halocarbons in the baseline study.

Please call me at (415) 426-2676 or Ms. Laurene Compton at (415) 426-2671 if you have any questions.

Sincerely,

Alan D. Gibbs, R.G.
Supervisor, Geology Group

enclosure

91 JAN 22 PM 1:47

PLTF/DEFT Exhibit 27 (27A attached)
WIT: DENNIS BYRNE
DATE 11/22/91 ERG
ELYSE R GARDNER, CSR

33298-1.wpn

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

Work Plan to Protect Underlying Soils During Soil Aeration at Southshore Carwash 2351 Shore Line Drive Alameda, California

Clayton Project No. 33298.00
January 10, 1991

CONTENTS

FIGURES

1.0 INTRODUCTION

Clayton Environmental Consultants, Inc. was retained by Harsch Investment Corporation to develop measures to protect surface soil from contamination by aerating soils at Harsch's property at 2351 Shore Line Drive in Alameda, California (Figure 1). The tenant at the site, Southshore Carwash, owns and operates a carwash and Chevron gasoline station. This work plan can also be applied to the planned aeration of Texaco soils after Southshore has completed their aeration.

Underground storage tanks (USTs) were removed from the Southshore site in 1990. At that time, petroleum hydrocarbons were identified in the soil. It is Clayton's understanding that Southshore plans to excavate more soil from the former UST location and aerate the soil onsite.

2.0 OBJECTIVE

We've developed this work plan to protect clean soils at the site from contamination by petroleum hydrocarbons leaking from aerating soils. The owners of the subject site wish to maintain the condition of the clean soil to avoid further environmental liability.

3.0 APPROACH

The protective measures that Clayton has developed for the remediation contractor to follow are briefly described below:

- **Task 1: Site Preparation**

Place minimum 6-millimeter thick polyethylene sheeting on the ground before spreading soil for aeration. Sheeting pieces will be overlapped so that they do not separate when the soils are spread or turned.

Fold the perimeter of the sheeting back over the aerating soil or place it over an underlying berm of clean soil. The method chosen must form a barrier that effectively blocks water runoff from a heavy rain.

- **Task 2: Soil Remediation**

Spread the soil thin enough so that turning is not necessary, thereby decreasing the risk of ripping the sheeting. If the soil must be turned, it will be done carefully so that the sheeting does not rip.

- Task 3: Post Remediation Sampling

After removal of the aerating soils, sample the underlying surface soil and analyze the samples to determine if petroleum hydrocarbons have migrated from the aerating soils.

The samples will be collected every 400 square feet in a grid pattern (Figure 2). Samples will be collected from 6 inches to 1 foot below the ground surface (bgs). Samples should be collected within 1 week of removal of the aerating soils from the site.

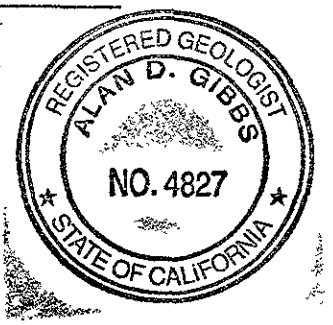
Soil samples collected will be analyzed for the petroleum hydrocarbon contamination that were identified in the aerating soils, including, but not limited to, the following:

- Total petroleum hydrocarbons (TPH) as gasoline
- TPH as diesel
- Benzene, toluene, ethylbenzene, and xylene
- Total recoverable hydrocarbons (oil and grease)

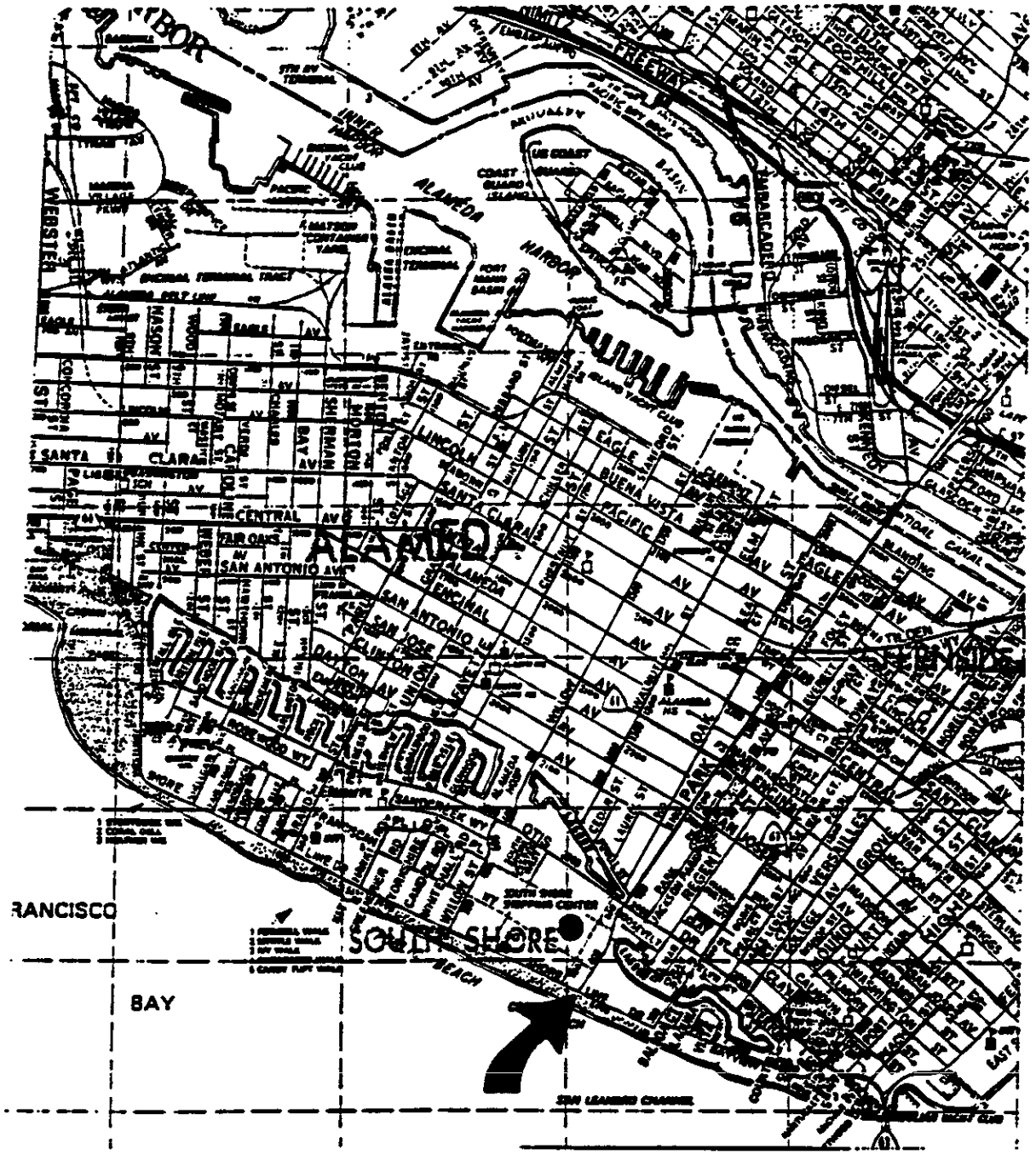
This work plan prepared by: _____
Laurene Compton
Geologist

This work plan reviewed by: _____
Alan D. Gibbs, R.G.
Supervisor, Geology Group
Western Operations

January 17, 1991



FIGURES



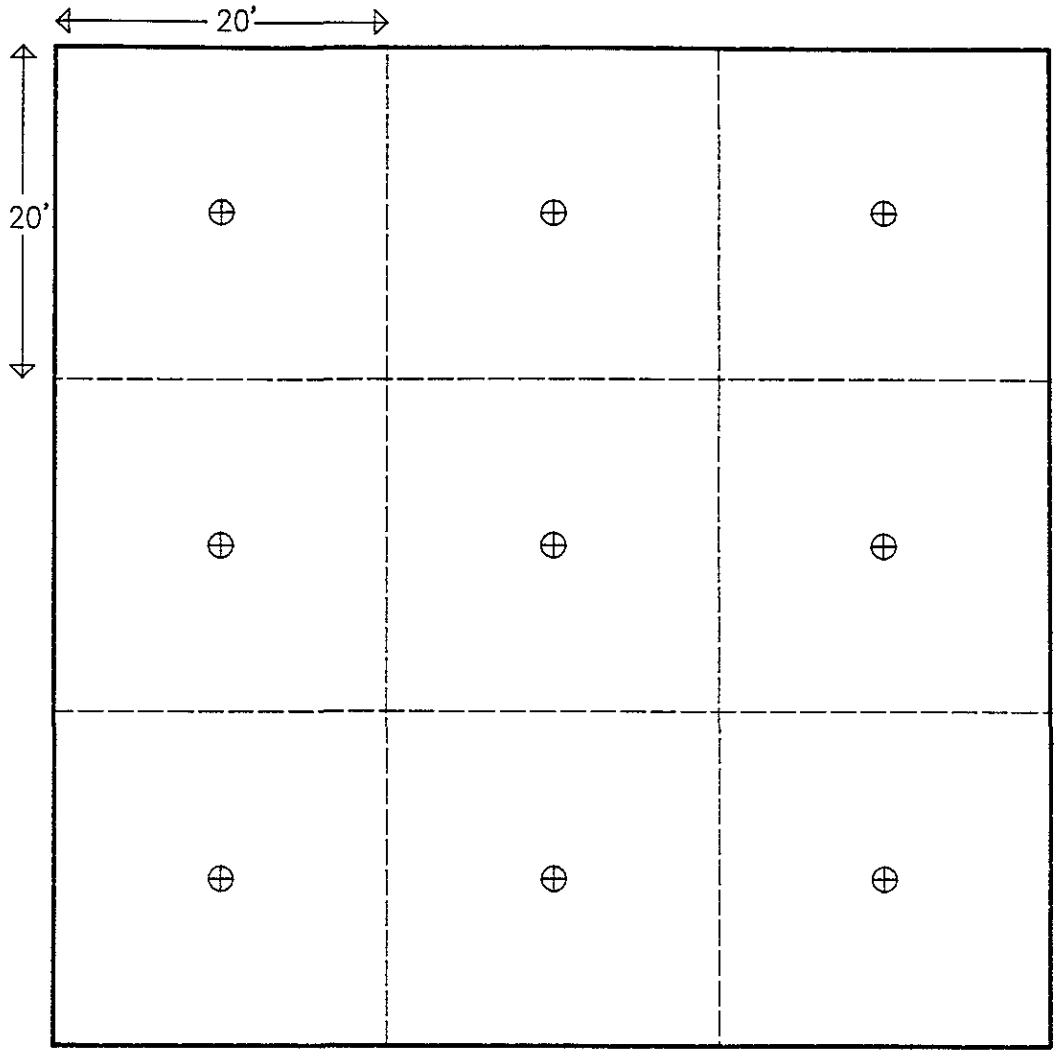
Site Location Map
Harsch Investment Corporation
Park Street and Shore Line Drive
Alameda, California

Clayton Project No. 29196.00

Figure
1

29196-01-17

Clayton
ENVIRONMENTAL
CONSULTANTS



LEGEND

⊕	Sampling Point
———	Perimeter of Aerating Soil
- - - - - - - -	400 Square Foot Sampling Areas

Sampling Strategy
South Shore Carwash
2351 Shore Line Drive
Alameda, California

Clayton Project No.

(not to scale)

Figure 2

Clayton ENVIRONMENTAL CONSULTANTS