



GETTLER-RYAN INC.

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PROTECTION

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TO: Mr. Phil Briggs
Chevron Products Company
P. O. Box 6004
San Ramon, California 94583

DATE: January 5, 1999
PROJ. #: 346473.01
SUBJECT: Work Plan
Chevron Station #9-4612
3616 San Leandro Street
Oakland, California

FROM:

Todd A. Del Frate
Geologist
Gettler-Ryan Inc.
3164 Gold Camp Drive, Suite 240
Rancho Cordova, California 95670

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	January 5, 1999	Work Plan For A Limited Soil Vapor Survey

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 For approval
 Return for corrections
 Return __ corrected prints
 For Your Use and Distribution
 For Your Files

COMMENTS:

At Chevron's request, GR is sending one copy of the above referenced work plan for your files. If you have any questions, please call me in our Sacramento office at (916) 631-1300.

cc: Mr. Barney Chan, Alameda County Health Care Services



GETTLER-RYAN INC.

WORK PLAN FOR A LIMITED SOIL VAPOR SURVEY

at

Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California


Report No. 346473.01

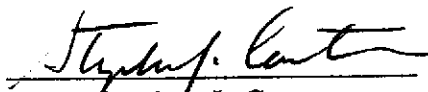
Prepared for:

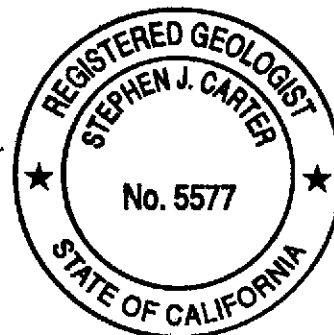
Mr. Phil Briggs
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Prepared by:

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January 5, 1999

TABLE OF CONTENTS

INTRODUCTION	1
SITE DESCRIPTION	1
SCOPE OF WORK	2
Task 1. Pre-field Activities	2
Task 2. Soil Borings	2
Task 3. Laboratory Analyses	3
Task 4. Report Preparation	3
PROJECT STAFF	3
SCHEDULE	3

FIGURES

Figure 1: Vicinity Map

Figure 2: Site Plan



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at

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3616 San Leandro Street
Oakland, California

Report No. 346473.01

INTRODUCTION

At the request of Chevron Products Company (Chevron), Gettler-Ryan Inc. (GR) has prepared this Work Plan for A Limited Soil Vapor Survey at the subject site (Figure 1). The proposed scope of work includes: obtaining the necessary soil boring permit from Alameda County Public Works Agency (ACPWA); preparing a site safety plan; advancing two soil borings using a GeoProbe® or similar direct-push technology; collecting soil vapor samples from the borings; submitting the soil vapor samples for chemical analysis; and preparing a report which presents the findings of the investigation. This scope of work was developed in response to a letter from Alameda County Health Care Services Agency dated September 21, 1998. It is our understanding this work is being performed as part of the site closure process.

The scope of work described in this Work Plan is intended to comply with the State of California Water Resources Control Board's *Leaking Underground Fuel Tanks (LUFT) Manual* and *California Underground Storage Tank Regulations, 1994*, the California Regional Water Quality Control Board (CRWQCB) *Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites*, and ACPWA guidelines.

SITE DESCRIPTION

The site is a former Chevron Service Station located on the northern corner of San Leandro Street and 37th Avenue in Oakland, California. Former facilities consisted of a station building, two dispenser islands, three underground storage tanks (USTs), and one waste oil

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UST. Currently, the site is occupied by a warehouse. Pertinent site features are shown on Figure 2.

SCOPE OF WORK

To assess soil vapor concentrations beneath the existing warehouse building, GR proposes to advance two vertical exploratory soil borings within the former UST pit. The borings will be located immediately adjacent to the existing warehouse building. Soil vapor samples will be collected from each of the borings.

To implement the proposed scope of work, GR proposes the following four tasks:

Task 1. Pre-field Activities

GR will prepare a site safety plan and obtain the necessary soil boring permit from the ACPWA. Underground Service Alert (USA) will be notified 48 hours in advance of the scheduled work. A private line locator will be contracted to locate subsurface utilities. The current property owner will also be contacted 48 hours in advance of the scheduled work.

Task 2. Soil Borings

GR will advance two vertical exploratory soil borings using a GeoProbe® or similar direct-push technology at the locations shown on Figure 2. Each boring will be hand-augered to 5 feet below ground surface (bgs) to clear subsurface utilities. Borings will be advanced by a California-licensed well driller. A GR geologist will monitor the activities and prepare a log of each boring. The exploratory soil borings will be advanced to a maximum depth of 9 feet bgs, or just above groundwater. Historical monitoring data from existing wells at the site indicate groundwater has ranged between 6 and 9 feet below ground surface (bgs). GR expects to encounter only engineered fill. Soil samples will not be retained for possible chemical analysis unless petroleum odors are noted. **Soil vapor samples will be collected using polyethylene tubing, a vacuum pump, and 1 liter Tedlar bags contained within a vacuum box.** All soil vapor samples and possible soil samples collected from the borings will be submitted for chemical analysis as described in Task 3.

The GeoProbe® does not generate drill cuttings. However, cuttings will be generated during the hand-augering of each boring. Upon completion, each boring will be backfilled to 5 feet bgs with neat cement. Cuttings generated during hand-augering

*down well sums can be
2 levels? 3' to 6'*

will be placed in the upper five feet of the boring and compacted. The boring will be completed at the surface with concrete.

Task 3. Laboratory Analyses

Soil vapor samples will be submitted for chemical analysis to Sequoia Analytical in Walnut Creek (ELAP #1261) Soil vapor samples will be analyzed for TPHg by Environmental Protection Agency (EPA) Method 8015 (Modified), and for gasoline constituents benzene, toluene, ethylbenzene, total xylenes (BTEX) by EPA Method 8020 Modified. Sequoia Analytical reports that they can achieve a benzene reporting limit of 0.05 mg/m³ using the tedlar bag sampling protocol proposed above.

Task 4. Report Preparation ^{50 µg/m³} *TO 14 method necessary?*

Following receipt and analysis of all data, a report will be prepared which summarizes the procedures and findings associated with this investigation. This report will be submitted to Chevron for their use and distribution.

PROJECT STAFF

Mr. Stephen J. Carter, a Registered Geologist in the State of California (R.G. No. 5577), will provide technical oversight and review of the work. Mr. Greg Gurss, Senior Project Manager, will supervise implementation of field and office operations. GR employs a staff of geologists, engineers, and technicians who will assist with the project.

SCHEDULE

Implementation of the proposed scope of work will commence upon receipt of regulatory approval.



Gettler - Ryan Inc.

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VICINITY MAP

Chevron Service Station No. 9-4612
 3516 San Leandro Street
 Oakland, California

FIGURE

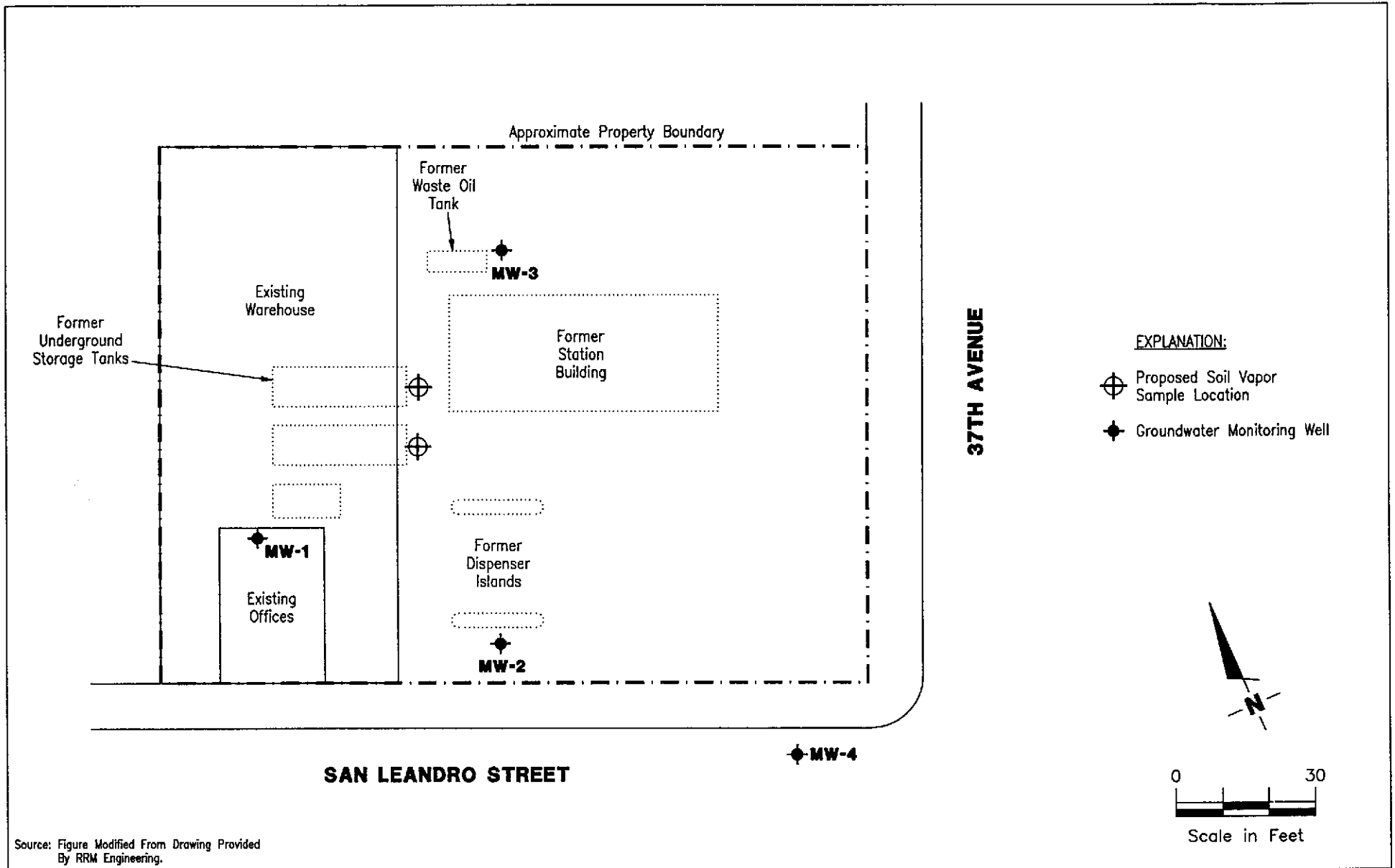
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DATE
 12/98

REVISED DATE



Source: Figure Modified From Drawing Provided
By RRM Engineering.



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SITE PLAN
Chevron Service Station No. 9-4612
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FIGURE

2

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