

P & D ENVIRONMENTAL

4020 Panama Court
Oakland, CA 94611
Telephone (510) 658-6916

ALCO
HAZMAT

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August 16, 1994
Work Plan 0014.W2

Mr. Scott Seery
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

SUBJECT: OFFSITE GROUNDWATER QUALITY INVESTIGATION WORK PLAN
XTRA OIL Company
3495 Castro Valley Blvd.
Castro Valley, CA

Dear Mr. Seery:

P&D Environmental (P&D) is pleased to present this Work Plan for the investigation of petroleum hydrocarbons in groundwater in the vicinity of the subject site. As we discussed on the telephone on August 9, 1994 the investigation will be performed to the southwest of the subject site to augment the groundwater sample results obtained from offsite sample collection locations P6 and P9 during P&D's groundwater grab sample investigation conducted during February, 1994. A Site Vicinity Map showing the proposed offsite groundwater investigation locations, designated as P10 and P11, is attached with this work plan as Figure 1.

P&D proposes to perform the following tasks.

- o Obtain offsite property access from XTRA OIL Company; obtain permits from the Alameda Water Agency, Zone 7; notify Underground Service Alert; notify the Alameda County Department of Environmental Health (ACDEH) and prepare a health and safety plan.
- o Collection of one groundwater grab sample from proposed offsite location P10. If elevated concentrations of petroleum hydrocarbons are encountered in the sample from proposed location P10, one groundwater grab sample will be collected from proposed offsite location P11.
- o Arrange for laboratory analysis of the groundwater grab samples for Total Petroleum Hydrocarbons as Gasoline (TPH-G); Benzene, Toluene, Ethylbenzene and Xylenes (BTEX); and for Total Petroleum Hydrocarbons as Diesel (TPH-D).
- o Report preparation documenting the results of the sample collection procedures and the laboratory analytical results.

Each of these is discussed below in detail.

Property Access and Permitting

Following approval of this work plan, P&D will request XTRA OIL Company to obtain offsite property access from the appropriate property owners. Following receipt of permission for offsite property access, P&D will obtain permits from the Alameda Water Agency, Zone 7; notify Underground Service Alert for buried utility location; provide notification to the ACDEH of dates for field activities; and prepare a health and safety plan.

Groundwater Grab Sample Collection

Based upon the results of the P&D Offsite Groundwater Quality Investigation performed in February, 1994, P&D will collect groundwater grab samples from

either one or two locations. The proposed locations of the groundwater grab samples, designated as P10 and P11, are shown on Figure 1.

The first groundwater sample will be collected from location P10. If petroleum hydrocarbons are detected at low concentrations or are not detected, no further investigation will be performed. However, if elevated concentrations of petroleum hydrocarbons are encountered in the sample from proposed location P10, one groundwater grab sample will be collected from proposed offsite location P11.

Groundwater grab samples will be obtained by drilling through the surface cover materials and hand augering to a depth of approximately 12 to 14 feet. After groundwater has entered the boreholes, groundwater samples will be collected from the boreholes by means of a Teflon bailer.

The groundwater grab samples will be transferred to 40-milliliter Volatile Organic Analysis (VOA) vials and one-liter amber glass bottles and capped with Teflon-lined screw caps. The bottles will be labeled and stored in a cooler with ice pending delivery to McCampbell Analytical, Inc. in Pacheco, California. McCampbell is a State-accredited hazardous waste testing laboratory. Following groundwater grab sample collection, the boreholes will be filled with neat cement.

Soil generated during this investigation will be transferred to DOT-approved drums pending appropriate disposal. The hand auger and Teflon bailer will be cleaned prior to each use with an Alconox solution wash followed by a clean water rinse.

Laboratory Analysis

The groundwater grab samples will be analyzed for TPH-G, BTEX, and TPH-D.

Report Preparation

Upon receipt of the laboratory analytical results, a report will be prepared. The report will contain documentation of field activities associated with the collection of the groundwater grab samples; copies of the laboratory analytical results and chain of custody documentation; a tabulated summary of the laboratory analytical results; a discussion of the local geology and hydrogeology; a map showing the sample collection locations; a discussion of the results and recommendations based upon the laboratory analytical results; and the signature and stamp of an appropriately registered professional.

As we discussed on the telephone, following delineation of the extent of petroleum hydrocarbons to the southwest of the site, recommendations for the placement of offsite groundwater monitoring wells will be included in the report documenting the results of the offsite groundwater quality investigation.

SCHEDULE

The actual start date for this investigation will be dependent upon ACDEH work plan approval and XTRA OIL Company successfully obtaining offsite access permission. Following notification from XTRA OIL Company of permission for offsite access, P&D will complete the work set forth in this work plan in accordance with the following schedule.

<u>ACTIVITY</u>	<u>DURATION</u>
Mobilization.....	7 Days
Sample Collection.....	12 Days
Report Submittal.....	45 Days

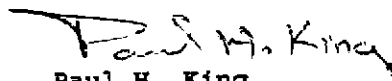
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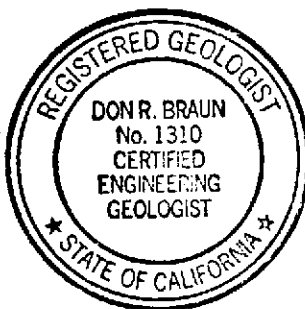
Should you have any questions, please do not hesitate to contact us at
(510) 658-6916.

Sincerely,

P&D Environmental



Paul H. King
Hydrogeologist



Don R. Braun
Certified Engineering Geologist
Registration No.: 1310
Expiration Date: 6/30/96

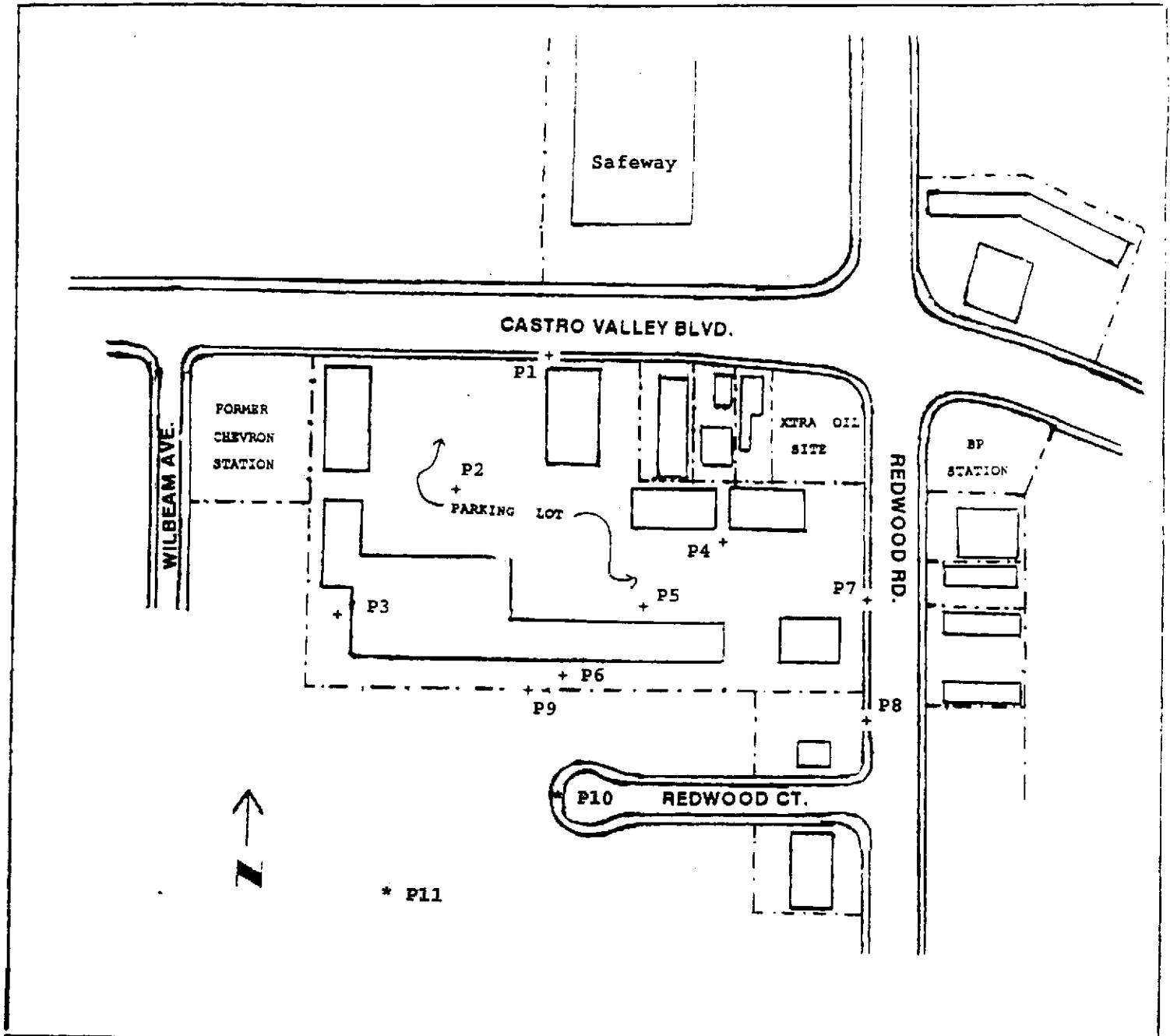
Attachment: Site Vicinity Map - Figure 1

cc: Mr. Ted Simas and Mr. Keith Simas, XTRA OIL Company

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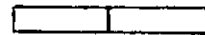
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LEGEND

- - - Property Line
- ▭ Buildings/Structures
- + February, 1994 Sample Collection Location
- * Proposed Sample Collection Location

0 100 200



Scale In Feet

Base Map From
XTRA OIL Company
November, 1993

Figure 1
SITE VICINITY MAP
XTRA OIL Company
3495 Castro Valley Blvd.
Castro Valley, California