

PHASE I ENVIRONMENTAL SITE ASSESSMENT
1280 DOOLITTLE DRIVE,
SAN LEANDRO, CALIFORNIA

Prepared for:
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May 8, 1991

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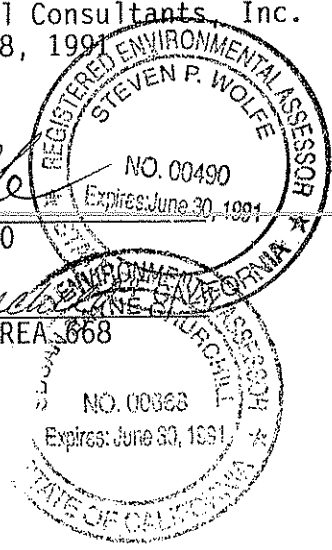


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1.0 INTRODUCTION

On behalf of Industrial Caster and Wheel Company (Client), a distributor of ball bearings and wheels, ACC Environmental Consultants, Inc. (ACC), performed a Phase I Environmental Site Assessment (ESA) of a vacant lot in San Leandro, California. The lot is located at 1280 Doolittle Drive, near the southeast corner of Doolittle Drive and Davis Street (Figure 1). The ESA was conducted because the Client is considering erecting a structure and moving his business to the property.

This report encompasses the results of the site reconnaissance, including a two thousand foot surrounding radius of study which entailed a review of federal, state, and local agency lists, and conclusions and recommendations. No asbestos survey was conducted since no buildings exist on the property.

2.0 PURPOSE OF SURVEY AND SCOPE OF SERVICES

The purpose of this Environmental Site Assessment (ESA) is to assess the feasibility of environmental impact from current or historic practices on the site and surrounding area. This investigation encompassed a review of readily accessible information from various agencies, interviews and information obtained from the Client and site reconnaissance.

The following tasks were performed to fulfill the needs and concerns of the Client:

- o Review of any new documentation provided by the Client regarding site development and renovation.
 - o Site reconnaissance of the surrounding area to investigate potential environmental impacts. A two thousand foot radius was employed for this reconnaissance.
 - o A review of the geology and hydrogeology of the surrounding area and the potential influences on the subject property.
 - o Evaluate any change in land use at the site based on available information and aerial photographs.
-
- o Review of the appropriate federal, state, and local regulatory lists to reveal any known hazardous waste sites or significant leaks or spills of hazardous materials.
 - o Preparation of a report summarizing the findings and including recommendations.

3.0 SITE CONDITIONS

3.1 Site History

In order to aid in assessing the site history, aerial photographs were reviewed from Pacific Aerial Services dating back to 1947. Earlier photographs were not available.

Throughout the 1940's, the area around the site largely consisted of agricultural land, most of which appears to have been cultivated. East of the

current Highway 880, some residential development had commenced to form part of southern Oakland. A few industrial buildings also existed, most likely related to the Southern Pacific Railroad system which was already established. The beginnings of what was to become the Davis Street Landfill were also apparent during the 1940's. West of the property, clarifiers and other equipment associated with the sewage disposal plant were in existence.

The 1950's saw the expansion of both residential and industrial growth, particularly east of a well-developed Highway 880 forming communities in parts of Oakland and San Leandro. However, with a few exceptions of industrial buildings such as the Dodge San Leandro Plant, most of the area west of Highway 880 remained devoted to agricultural endeavors. The Oakland airport was developed during this time period. Extensive scarring of earth indicates that the landfill also was being extensively used during the 1950's. The presence of trailers and cabs suggests that a trucking company operated on the property and adjacent site at this time.

The following two decades experienced continued residential and industrial growth both east and west of Highway 880. By the late 1970's, very little open space remained, with residential dwellings predominant east of Highway 880 while industrial buildings dominated the area west of Highway 880. The subject site was being widely used by a trucking company during these years. In addition, the Oakland airport continued to expand to accommodate the growing population and the advent of jets. The Davis Street Landfill was still accepting material until it reportedly closed in 1980.

The few remaining vacant lots in the area were occupied by industrial and residential building during the 1980's. Both San Leandro and Oakland had now been well-established for some time as was the Alameda Golf Complex and the Oakland airport.

3.2 Site Description

The subject site is located at 1280 Doolittle Drive, an area zoned for industrial uses. The Client is considering constructing a one-story building on the property and moving his business to the new location.

The site is bounded on the northern side by an automobile brake shop, on the west by Doolittle Drive and on the south by Carden Street. The Southern Pacific Railroad system flanks the site on the east (Figure 1).

The site consists of a vacant 30,000 square foot lot. The lot is paved with a gravel surface. A small section in the northeast corner of the lot (Figure 2) has been newly paved to accommodate requirements for a lighted billboard structure. A drain system exists parallel to Doolittle Drive on the western edge of the property with its outfall into a storm drain located at the corner of Doolittle Drive and Carden Street.

One 10,000-gallon underground storage tank previously containing diesel fuel was removed in October of 1990. The results of the soil sampling accompanying this removal were within acceptable regulatory limits, therefore the case has been closed (City of San Leandro Fire Department file review, May, 1991).

3.3 Site Geology and Hydrogeology

The site is located in the East Bay Plain which covers an area of about 115 square miles in western Alameda County. The area extends from the City of Hayward in the south, northward to Albany.

Most of the groundwater in the East Bay Plain is used for irrigation and industrial purposes. In 1987, the majority of the water for domestic use was supplied by the East Bay Municipal Utilities District (East Bay MUD) and the City of Hayward from surface water sources that have been developed outside of the East Bay Plain area. Little groundwater is pumped for domestic consumption.

The aquifer employed for irrigation and industrial purposes is comprised of older and younger alluvium and Merritt Sand, with an aggregate maximum thickness of roughly 1,100 feet. Groundwater occurs under both confined and unconfined conditions. The flow is predominantly westward toward San Francisco Bay with a gentle gradient. Yields of wells installed in the older alluvium range from tens of gallons per (gpm) minute to greater than one thousand gpm.

Recharge to the groundwater occurs from infiltration of rain, seepage from streams and subsurface inflow from adjacent areas. The amount of recharge in recent years has likely been only several thousand acre-feet annually due to the on-going drought in California.

Discharge of water consists of evapotranspiration, groundwater discharge to streams, underflow to San Francisco Bay, spring discharge and artificial discharge including pumping from wells.

Groundwater is stored in the interstices of the unconsolidated sediments beneath the East Bay Plain. However, the amount of groundwater that can be effectively employed is restricted to the water above mean sea level. Groundwater storage decline to below sea level would result in salt water intrusion, a phenomenon which has occurred recently in the San Leandro area.

4.0 **SITE RECONNAISSANCE**

4.1 Investigation of Property and Two Thousand Foot Radius

On May 8, 1991, a site investigation and reconnaissance was conducted by ACC geologist and Environmental Services Director, Steven Wolfe, who was accompanied by Mssrs. Bob Bingaman, owner of Industrial Caster and Wheel Company and Meryl Pethan, the realtor representing the owner and potential seller of the property, Mr. Manuel Senna. The focus of the investigation was to evaluate the condition of property and investigate hazardous materials spills, leaks, or other environmental concerns within a two-thousand foot radius of the site.

As mentioned previously, the vacant lot is paved. The older asphalt is partially covered with gravel and has several cracks. The newly asphalted area in the northwest corner of the property is in excellent condition. The site is surrounded by a chain link fenced topped with barbed wire. Various metal debris currently is present along the fences of the lot.

5.0 POTENTIAL OFF-SITE SOURCES OF CONTAMINATION

Review of local, state and federal lists as well as site reconnaissance revealed several sites within the prescribed 2,000 foot radius of study with environmental concerns including soil and/or groundwater contamination. Section 7.0 lists these sites. Those sites that could potentially impact the subject site are discussed below. Their locations are shown in Figure 2.

5.1 Atlas Freight - 993 Beecher Street

The discovery of a release of total petroleum hydrocarbons (tph) at this facility east of the subject property led to the removal of three underground storage tanks (USTs) in December of 1990. They included one 10,000-gallon diesel fuel tank, one 10,000-gallon gasoline tank and one 550-gallon waste oil tank. Soil sampling indicated concentrations of tph-diesel up to 44,000 parts per million (ppm) and tph-gasoline up to 430 ppm. In addition, the groundwater at this site was also impacted. Both tph-diesel and tph-gasoline exceeded regulatory limits. Therefore a subsurface investigation has been required by the regulatory agencies. This assessment is not yet completed.

5.2 Bay County Properties - 900 Doolittle Drive

This site is located north of the subject property at 900 Doolittle Drive. In January of 1986, one 1,000-gallon gasoline UST was removed. Groundwater was encountered at 7.5 feet below ground surface. Sampling of this water showed elevated concentrations of tph-gasoline as well as benzene, toluene, xylene and ethylbenzene (BTXE). As a result, five monitoring wells were installed on the site with periodic sampling and analysis performed. As recent as September of 1990, tph-gasoline and benzene continued to exceed regulatory standards. In 1990, trichloroethylene was also discovered in the groundwater at a relatively high concentration of 4,000 parts per billion (ppb). Oil and grease was also shown to be present. The monitoring plan is scheduled to continue with remediation plans to be developed in the future.

5.3 Davis Street Transfer Station - 2615 Davis Street

The Davis Street Transfer Station, part of Oakland Scavenger, is located east of the subject property at 2615 Davis Street. A leaky 10,000-gallon underground storage tank and pipeline containing diesel fuel was removed in October of 1990. Soil sampling indicated very little concentration of tph-diesel and BTXE. However, groundwater sampling revealed the presence of all of these constituents, with tph-diesel and benzene exceeding regulatory standards. Sampling later in 1990 showed that the contaminant concentrations had decreased but they still exceeded acceptable limits. Presently, quarterly groundwater monitoring is performed.

5.4 W.R. Grace - 2140 Davis Street

W.R. Grace Company is located at 2140 Davis Street, immediately north of the subject site. The company is involved in the production and distribution of various chemical products. It has experienced environmental problems for several years, stemming primarily from underground tank leaks. Since the mid-1980's, benzene, toluene, hexane, ethyl alcohol and cyclohexane have been identified in the groundwater. A recent tank leak in

1990, resulted in soil contamination as well as adding to the groundwater concern. Several monitoring wells have been installed to assess the contamination. A groundwater gradient to the southwest, with southeasterly components has been established. Air stripping has been proposed to the regulatory agencies for remediation of the contamination. Review of this proposal is continuing.

5.5 Rouse and Associates - 1555 Doolittle Drive

This site is located south of the subject site at 1555 Doolittle Drive. Over several days in September of 1986, ten underground storage tanks were removed from the site. Soil and groundwater sampling following removal indicated that excessive concentrations and free product of diesel fuel in the groundwater. Monitoring wells constructed in 1987 were employed to remove the free product and monitor the dissolved portion of the contaminants. Benzene, toluene, ethylbenzene and TPH-diesel were encountered, although below regulatory limits. A 1987 report indicated that no contamination had migrated off-site. No later information was available from the regulatory agencies.

5.6 The Walch Property - 844 Doolittle Drive

The Walch Property is located north of the subject site at 844 Doolittle Drive. Removal of an underground tank storing gasoline was performed in 1988. Subsequent soil sampling indicated the presence of TPH-gasoline, benzene, toluene, xylene and ethylbenzene contents in the ppm range. No groundwater contamination was indicated. The fire department was notified of these results and a consultant was selected to remediate the soil. No further information was available in agency files.

5.7 Hohener Meats - 2500 Davis Street

The Hohener Meat Company is located east of the subject site at 2500 Davis Street. An unspecified number of underground tanks exist or did exist at this site according to records from the City of San Leandro Fire Department. The facility has been in violation of local ordinances by not registering these tanks and not having monitoring systems to detect leaks. However, repeated attempts by the fire department has resulted in no response from the company until recently. The company plans to close, most likely as a result of the death of its owner, Mr. George Hohener. A relative, Mr. Butch Hohener, has been in contact with the fire department and has indicated an interest in correcting any violations and necessary work to close the business. However, the problem has not yet been resolved.

5.8 Kuhl Property - 2420-2424 Davis Street

The Kuhl Properties are located east of the subject site at 2420 to 2424 Davis Street. During 1990, two 1,000-gallon and one 2,000-gallon underground storage tanks were excavated. A preliminary assessment was undertaken after discovering TPH-gasoline, benzene and xylene in subsequent water samples exceeding acceptable limits. The results of the assessment are not yet available. The regulatory agencies remain involved with the case.

5.9 Likit Windows - 888 Doolittle Drive

The Likit Windows facility is located north of the subject site at 888

Doolittle Drive. Two underground storage tanks, one 1,000-gallon and one 5,000-gallon, were removed in 1986. No fuel products or sheen were visible on the water surface and no odor was noticed from samples collected from a monitoring well installed in 1986. However, TPH and benzene, toluene, xylene and ethylbenzene were discovered to exist in the water. A monitoring program was instituted to assess the changing concentrations with time. The program is still in operation. No remedial plan was available for review at agency offices.

5.10 Lincoln Properties - 1345 Doolittle Drive

The Lincoln Properties site is located south of the subject site at 1345 Doolittle Drive. During 1989, following the excavation of an underground storage tank, a contractor removed asphalt paving, a portion of the adjoining railroad track, contaminated soil. The pit was backfilled and no further work on the soil was required by the regulatory agencies. Nevertheless, a monitoring program was instituted to evaluate whether the groundwater had been impacted. Initial sampling indicated not only constituents common to gasoline (BTXE), but also the solvents trichloroethylene and dichloroethylene. This prompted the suggestion of a potential up-gradient, off-site source. The monitoring program will remain active until the contaminants are reduced to less than the regulatory standards. A remedial plan will be required by both the San Leandro Fire Department and the Alameda County Department of Health.

5.11 Paradiso Construction Company - 990 Beecher Street

The Paradiso Construction Company is located east of the subject site at 990 Beecher Street. Two 8,000-gallon underground tanks storing gasoline were removed in 1986. Soil samples following the tank excavation indicated TPH-gasoline contents up to nearly 3,000 ppm while water samples collected from the tank pit revealed 49 ppm of TPH-gasoline, 10 ppm xylenes and less than 0.1 ppm of benzene and toluene. A groundwater remediation plan is currently being developed and will be reviewed by the regulatory agencies.

5.12 Lasley's Truck Station - 1946 Davis Street

The Lasley Truck Station is located east of the subject site at 1946 Davis Street. The site has recently experienced environmental problems originating from underground tank leaks and from surface spillage from 55-gallon drums. In 1989, ~~three underground tanks storing diesel fuel and gasoline~~ were removed, two 10,000-gallon tanks storing diesel fuel and one 10,000-gallon tank storing gasoline. Soil sampling indicated elevated concentrations of TPH-diesel and BTXE. These results prompted the initiation of a preliminary site assessment. This investigation included the installation of three monitoring wells to assess the groundwater contamination. Samples collected from the wells showed excessive contents of BTXE and TPH-diesel adjacent to the tanks. In addition, soil samples collected near the drums indicated shallow, but highly concentrated, contamination with oil. A remedial plan has recently been submitted to the regulatory agencies and is undergoing review.

5.13 2100 Carden Street

The 2100 Carden Street site is located immediately adjacent and north of the subject site. During 1990, two underground tanks storing diesel fuel were removed, one 7,000-gallon tank and one 10,000-gallon tank. Soil

samples collected following tank removal revealed acceptable concentrations of tph-diesel and BTXE. However, water samples taken from the pit indicated that the groundwater had been impacted and contained elevated levels of tph-diesel and benzene. In October of 1990, the regulatory agencies directed a preliminary assessment to evaluate the extent of contamination. Results of this assessment, if complete, were not available for review from the agencies.

6.0 CONCLUSIONS AND RECOMMENDATIONS

A Phase I Environmental Site Assessment (ESA) was conducted on a vacant lot, located at 1280 Doolittle Drive in a very industrialized part of San Leandro, California. The Client is considering moving his ball bearing and wheel distribution business to this location. A new one-story building roughly 15 feet high will be erected to permit normal business operations to proceed. This assessment encompassed a review of regulatory agency files, review of aerial photographs and a site reconnaissance to evaluate site conditions and businesses within a 2,000 foot radius which could have adversely impacted the subject site.

The property itself is owned by Mr. Manuel Senna and has been used periodically in the trucking industry for a number of years. In 1990, one underground storage tank containing diesel fuel was removed. Site Closure was approved by the regulatory agencies when soil samples collected from the tank pit indicated concentrations of the tested parameters within acceptable limits. A newly paved area exists on-site which was required upon the installation of a large lighted billboard. A drain exists on the property which parallels Doolittle Drive and empties into a storm drain located on Carden Street.

Within the prescribed 2,000 foot radius of study, many sites were identified which could potentially impact the property at 1280 Doolittle Drive. All of these sites were identified through the agency list review and field reconnaissance and contain soil and/or groundwater contamination, derived predominantly from underground tank leaks. The contaminants range from components found in diesel fuel and gasoline such as benzene, toluene, xylene and ethylbenzene to chlorinated solvents and alcohols. In all, 13 sites were located within the 2,000 foot radius containing such problems. Work is on-going at the majority of these sites and will most likely require years of treatment to remediate the environmental concerns.

The flow of groundwater in the vicinity of the site is in a westerly to southwesterly direction toward San Francisco Bay with local permutations and a gentle gradient. In addition, groundwater is typically encountered between seven to ten feet below ground surface. All of the sites are sufficiently proximal to the subject site that the subsurface soil and hydrogeologic conditions could promote the migration of pollutants onto the property.

Due to the existence of the numerous sites within the 2,000 foot radius that could potentially impact the subject site and that no data exists from the subject site itself, ACC recommends drilling two shallow soil borings to groundwater to evaluate the soil and groundwater, specifically beneath 1280 Doolittle Drive. The data will not only be useful in assessing whether migration of pollutants onto the subject site has occurred, but it will also establish baseline data for future reference. It is conceivable that in the future, should continued remediation be required from surrounding sites and pollutants migrate onto the 1280 Doolittle Drive property,

Industrial Caster and Wheel Company could be cited as a Responsible Party and therefore be financially responsible for helping clean up the property, despite not contributing to the environmental problem. By sampling the soil and groundwater now, and by maintaining good housekeeping and environmental engineering controls at the proposed business location, Industrial Caster would be able to document that it did not contribute to any subsurface environmental concerns.

Should Industrial Caster decide to proceed with the subsurface sampling on the property, ACC will submit a proposal for completing this work.

7.0 AGENCY REVIEW

1. **United States Environmental Protection Agency**, San Francisco, CA
 - a. Reviewed National Priorities List (NPL) - no sites listed within 2,000 feet of the subject property.
 - b. Reviewed CERCLIS List
 1. Bay City Disposal - 2615 Davis Street. No further action is planned by EPA. A preliminary assessment was completed in May, 1985.
 2. Dix Chemical/Peabody Testing - 2506 Davis Street. No further action is planned by EPA. A preliminary assessment was completed in October, 1989.
 3. M and S Mechanical - 2420 Davis Street. No further action is planned by EPA. A preliminary assessment was completed in February, 1985.
 - c. Reviewed RCRA List
 1. Miller Materials - 990 Beecher Street. Large quantity generator (greater than 1,000 kg of waste per month).
 2. Airco - 1590 Doolittle Drive. Very small quantity generator (less than 100 kg of waste per month).
 3. Bayco Industries - 2108 Davis Street. Small quantity generator (between 100 and 1,000 kg of waste per month).
 4. Caterpillar Tractor Co. - 1993 Davis Street. Large quantity generator.
 5. Crain Pacific - 2435 Polvorosa Drive. Large quantity generator.
 6. Acme Printing Ink - 1000 Beecher Street. Large quantity generator.
 7. American Radiator - 2222 Davis Street. Very Small quantity generator.
 8. WR Grace - 2140 Davis Street. Large quantity generator.
 9. GSF Energy - 2627 Davis Street. Large quantity generator.
 10. J and B Paint - 2420 Davis Street. Very small quantity generator.
 11. Kaiser Aerotech - 880 Doolittle Drive. Large quantity generator.
 12. Kaiser Aluminum - 1937 Davis Street. Large quantity generator.
 13. LJ Walch - 844 Doolittle Drive. Very small quantity generator.
 14. Likit Windows - 888 Doolittle Drive. Very small quantity generator.
 15. M and S Mechanical Inc. - 2420 Davis Street. Large quantity generator.
 16. North American Tool and Die Co. - 1979 Davis Street. Small quantity generator.
 17. North American Tool and Die Co. - 999 Beecher Street. Small quantity generator.
 18. Oak Scavenger - 2615 Davis Street. Small quantity generator.
 19. Prescolite - 1251 Doolittle Drive. Large quantity generator.
 20. Wholesale Brake Supply - 2512 Davis Street. Large quantity generator.

2. **California State Department of Health Services**, Berkeley, CA

a. Reviewed Abandoned Site List (ASPIS)

1. Alexander's Moving and Storage - 1066 Beecher Street. No further action is planned by DOHS.
2. Allied Supply Company - 2100 Davis Street. No further action is being planned by DOHS.
3. AMCO Pipe/Cowney Value - 2002 Davis Street. A preliminary assessment is planned by DOHS.
4. Bay City Disposal Co./ Davis Street Landfill - 2615 Davis Street. No further action is planned by DOHS.
5. Bayco Industries of California - 2108 Davis Street. No further action is planned by DOHS.
6. Dix Chemical - 2506 Davis Street. No further action is planned by DOHS.
7. Hose Fitting and ECT - 2487 Polvarosa Street. No further action is planned by DOHS.
8. Industrial Freight Systems - 1884 Davis Street. No further action is planned by DOHS.
9. Kaiser Aerotech Inc. - 880 Doolittle Drive. No further action is planned by DOHS.
10. M and H Chemical - 2386 Davis Street. No further action is planned by DOHS.
11. M and S Mechanical/Kuhl Manufacturing - 2420 Davis Street. No further action is planned by DOHS.
12. Nor-Cal Seal Company - 840 Doolittle Drive. No further action is planned by DOHS.
13. Peters Truck Lines - 993 Beecher Street. No further action is planned by DOHS.
14. Red Ball Motor Freight - 1884 Davis Street. No further action is planned by DOHS.
15. Distribution Systems Inc. - 1501 Doolittle Drive. No further action is planned by DOHS.
16. WR Grace Company - 2140 Davis Street. No further action is planned by DOHS.
17. Websco Automotive Products - 2515 Davis Street. No further action is planned by DOHS.

b. Reviewed Hazardous Waste and Substances Site List (Cortese List)

1. Airco - 1590 Doolittle Drive. Underground storage tank (UST) leak.
2. Walch Property - 844 Doolittle Drive. UST leak.
3. Hohener Meat Co. - 2500 Davis Street. UST leak.
4. Westgate Project - 1933 Davis Street. UST leak.
5. WR Grace - 2140 Davis Street. UST leak.
6. Rouse and Associates - 1555 Doolittle Drive. UST leak.
7. Prescolite - 1251 Doolittle Drive. UST leak.
8. Paradiso Construction Co. - 990 Beecher Street. UST leak.
9. Likit Windows - 888 Doolittle Drive. UST leak.
10. Kaiser Aluminum - 1937 Davis Street. UST leak.
11. Atlas Freight - 993 Beecher Street. UST leak.
12. Aditor Farms - 1400 Doolittle Drive. UST leak.
13. Lincoln Property - 1345 Doolittle Drive. UST leak.
14. Lasley's Truck Station - 1946 Davis Street. UST leak.
15. Bay County Properties - 900 Doolittle Drive. UST leak.
16. Crain Pacific - 2451 Polvorosa Drive. UST leak.

3. **California Regional Water Quality Control Board (RWQCB)**- Bay Area Region, Oakland, CA

a. Reviewed Leaking Underground Storage List

1. Airco - 1590 Doolittle Drive.
2. Atlas Freight - 993 Beecher Street.
3. Bay County Properties - 900 Doolittle Drive.
4. Crain Pacific - 2451 Polvorosa Drive.
5. Davis Street Transfer Station - 2615 Davis Street.
6. Ferma Corp. - Davis Street.
7. Hohener Meat Co. - 2500 Davis Street.
8. Kuhl Property - 2420-24 Davis Street.
9. Lasley's Truck Station - 1946 Davis Street.
10. Likit Windows - 888 Doolittle Drive.
11. Lincoln Property - 1345 Doolittle Drive.
12. Paradiso Construction Co. - 990 Beecher Street.
13. Prescolite - 1251 Doolittle Drive.
14. Rouse and Associates - 1555 Doolittle Drive.
15. Walch Property - 844 Doolittle Drive.
16. WR Grace - 2140 Davis Street.

4. **Division of Oil and Gas**, Sacramento, CA

No oil or gas wells listed within 2,000 feet of the subject site.

8.0 REFERENCES

California's Changing Landscape, A Guide to the Geology of the State, Oakshott, G.B., 1978.

Department of Water Resources, Bulletin 13, Alameda County Inventory, 1963.

Franciscan and Related Rocks and Their Significance in the Geology of Western California, Bulletin 183 of the California Division of Mines and Geology.

Geology of California, Norris, R.M. and Webb, R.W., 1976.

USGS San Leandro, California 7.5 Minute Quadrangle Map.

9.0 Personal Communication

Mike Bakaldin, San Leandro City Fire Department, (415) 577-3318.

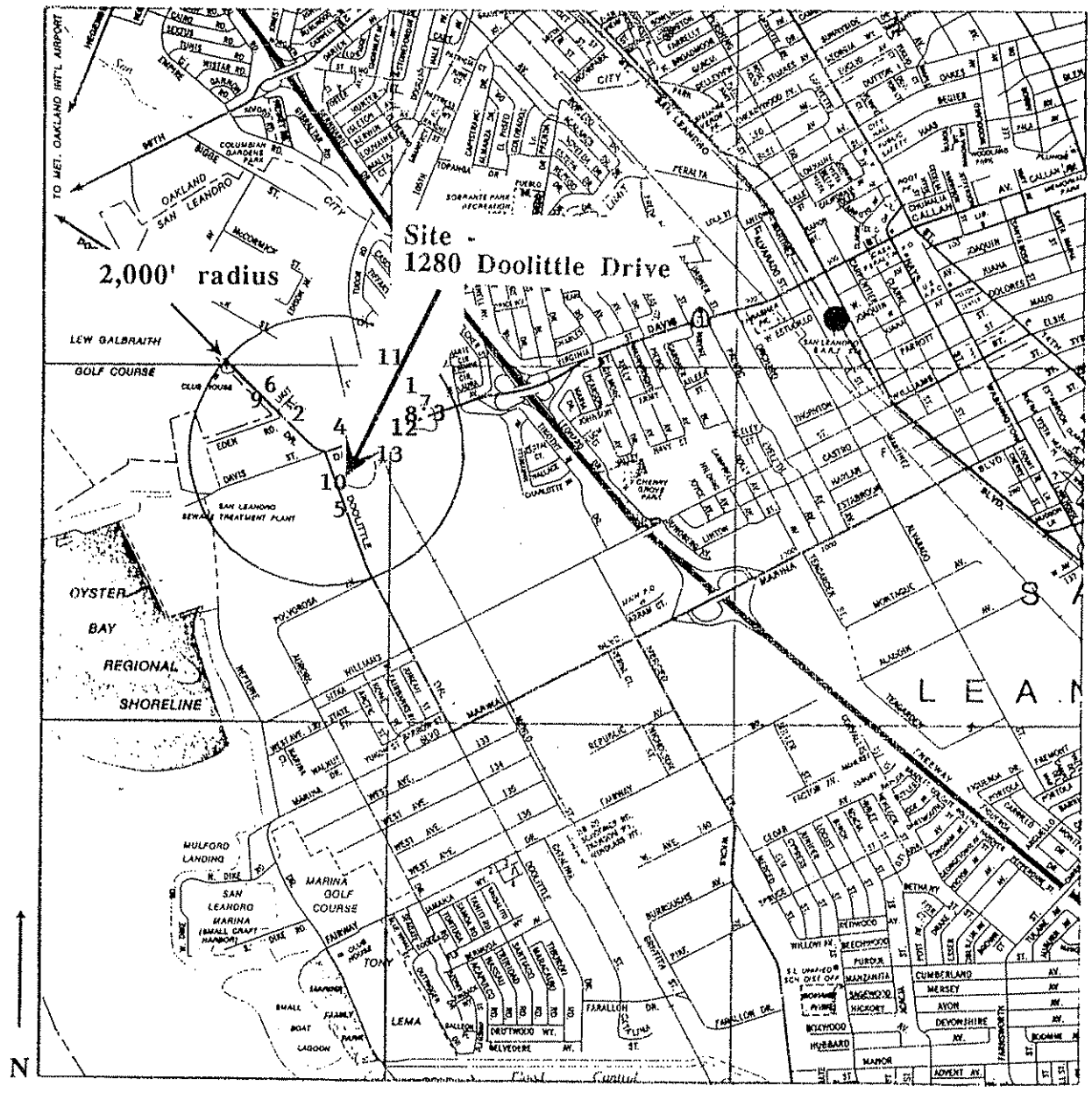
Bob Bingaman, Industrial Casting, (415) 569-8303.

Rob Hauser, Division of Oil and Gas, Sacramento, California, (916) 445-9686.

Meryl Pethan, Cornelius, Wehrman and Pethan, (415) 357-7440.

Table 1 - List of sites within the 2,000 foot radius of study. The numbers correspond to those shown on Figure 1.

<u>Site Number</u>	<u>Site</u>
1	Atlas Freight
2	Bay County Properties
3	Davis Street Transfer Station
4	W.R. Grace
5	Rouse and Associates
6	Walch Property
7	Hohener Meat Company
8	Kuhl Property
9	Likit Windows
10	Lincoln Properties
11	Paradiso Construction
12	Lasley' Truck Station
13	2100 Carden Street



(Source: CSAA, 1980)



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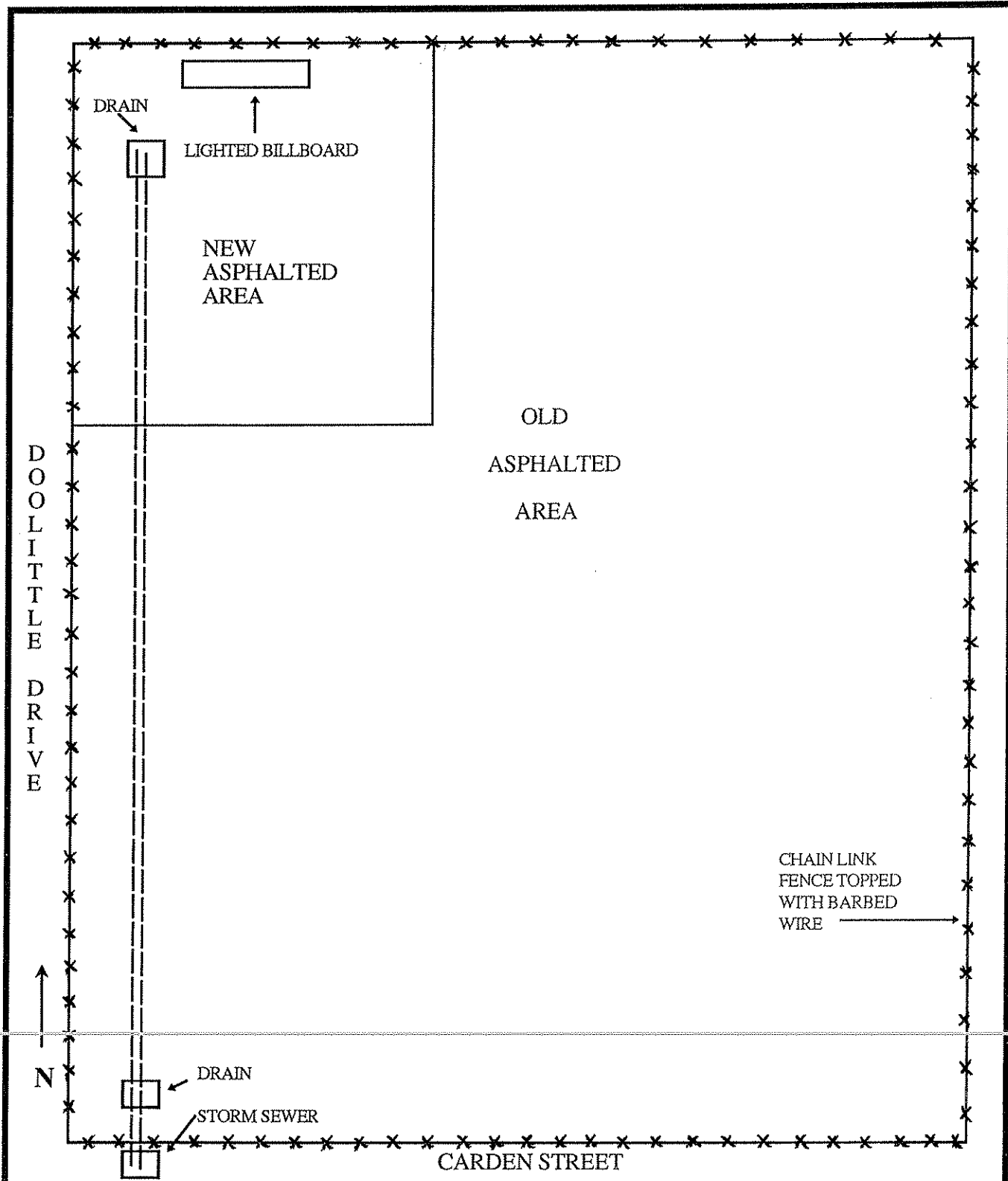
SITE LOCATION MAP
 1280 Doolittle Drive
 San Leandro, California

Project No. 6016-1

Date: 5/6/91

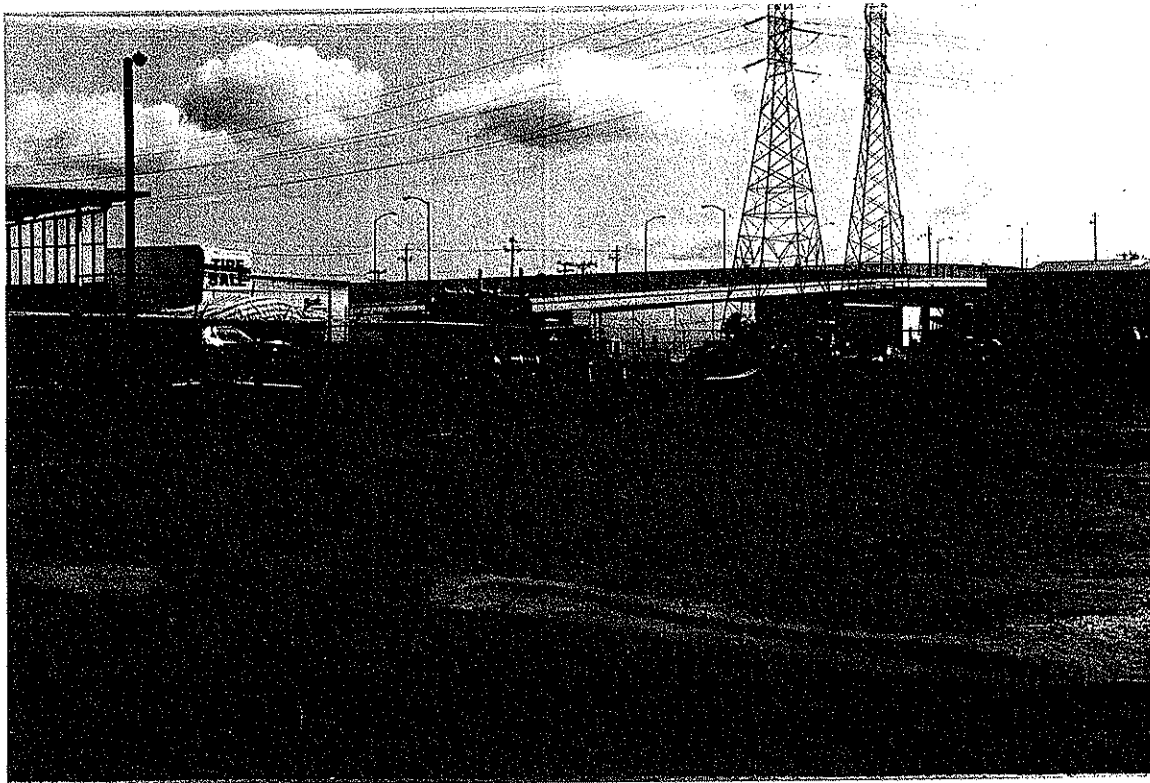
Drawn by: OPJ

Figure No. 1



<p>0' 25'</p> <p>Scale</p>	<p>ACC Environmental Consultants, Inc. 1000 Atlantic Ave., Suite 110 Alameda, CA 94501</p>	<p>Detailed Site Location Map 1280 Doolittle Drive San Leandro, California</p>	
<p>Project No. 6016-1</p>	<p>Date: 5/14/91</p>	<p>Drawn by: OPJ</p>	<p>Figure No. 2</p>

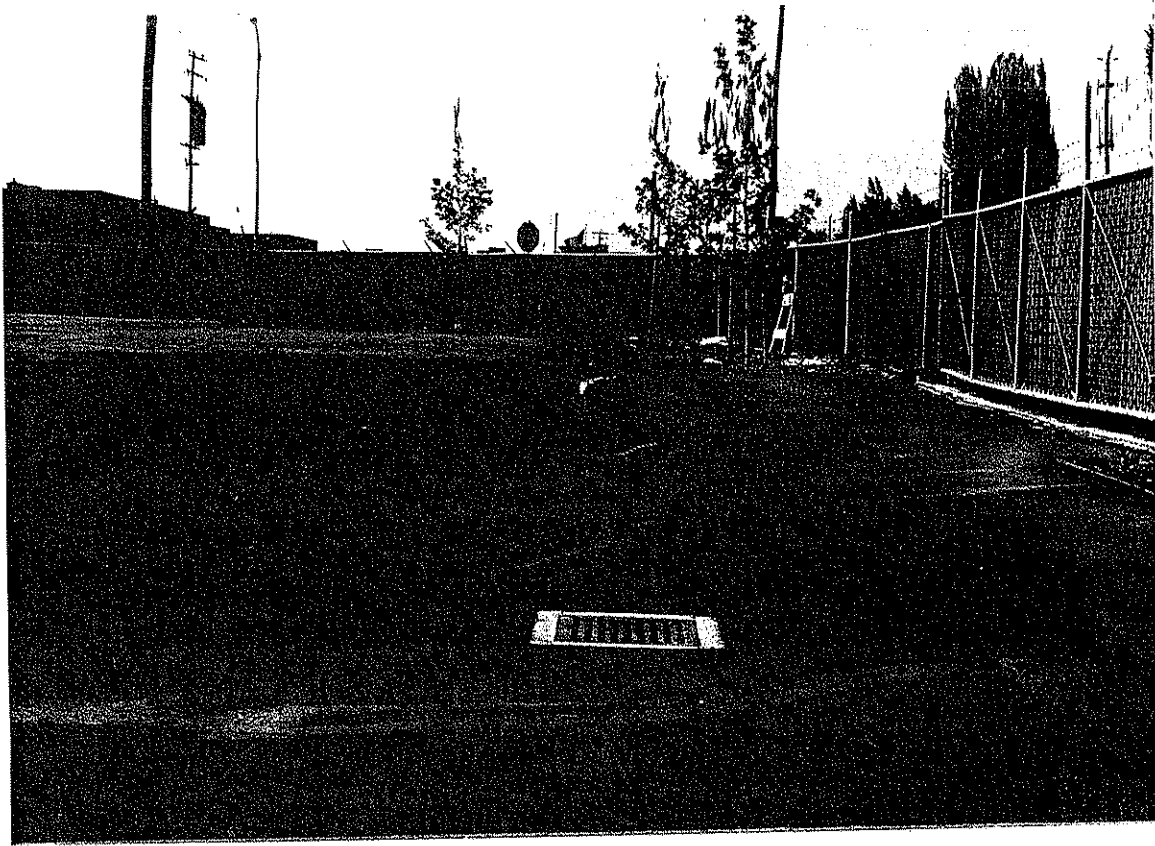
APPENDIX A
PHOTOGRAPHS



View northward from 1280 Doolittle Drive toward 2100 Carden Street. Note the depressed area in the foreground. This is the drain system leading off-site.



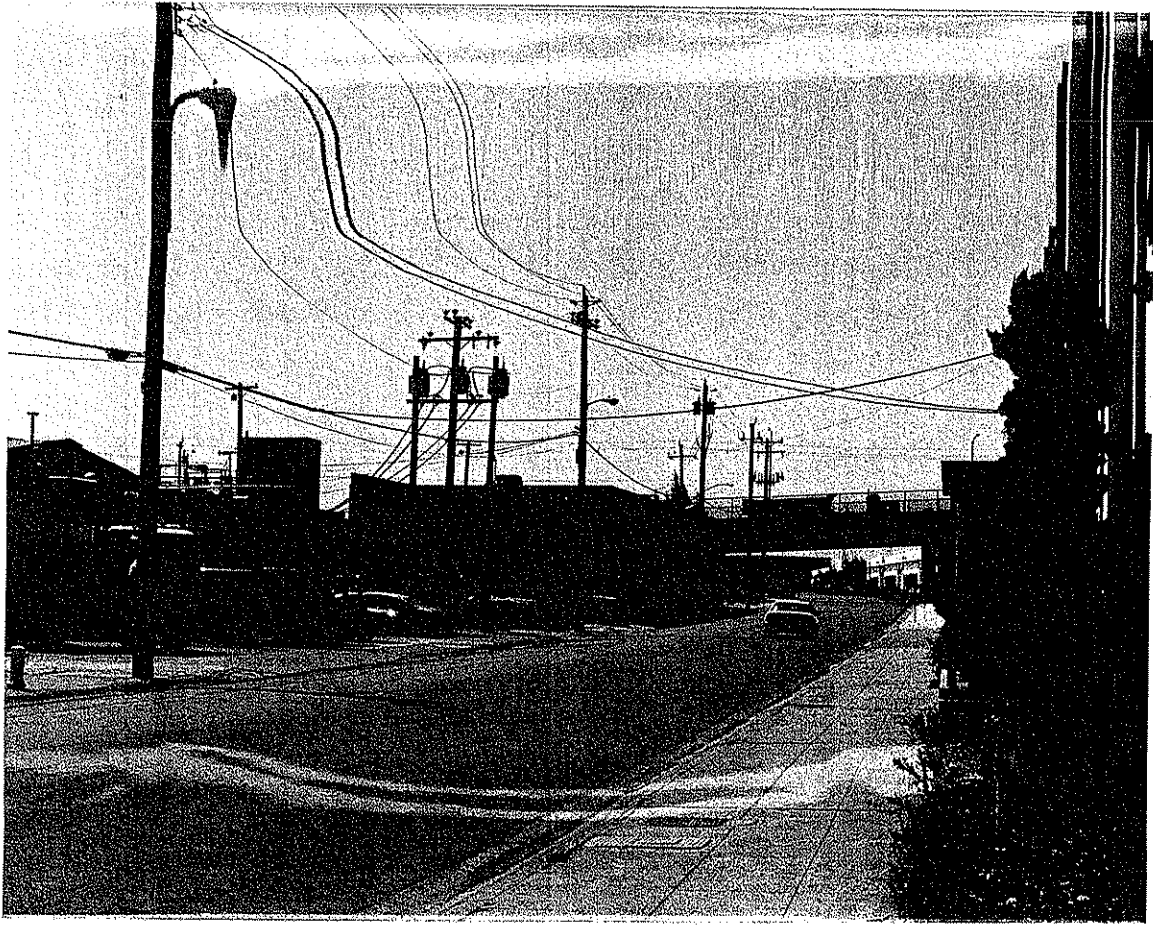
View southeastward from the newly asphalted area toward Carden Street.



A southerly view of the drainage system from the newly asphalted area. The drain empties into a storm drain at the corner of Doolittle Drive and Carden Street.

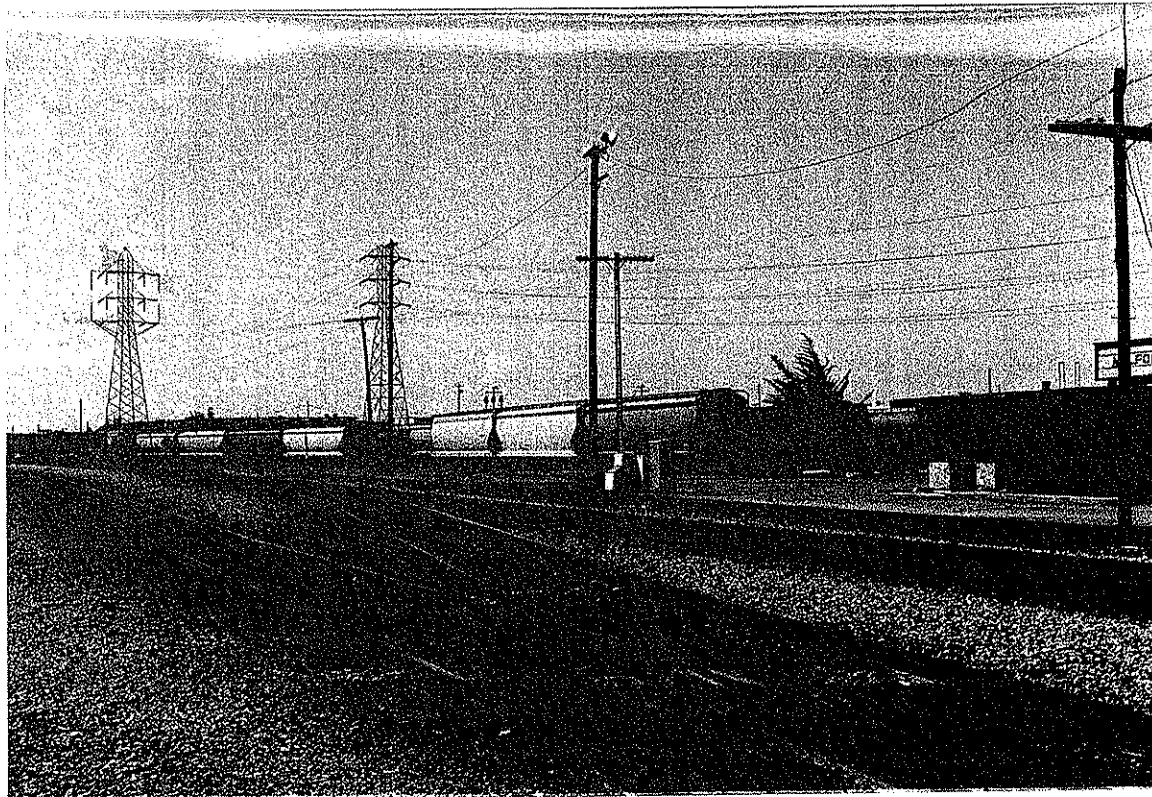


View northwestward of the lighted billboard at the corner of the property. Note the new asphalted area beneath the billboard.

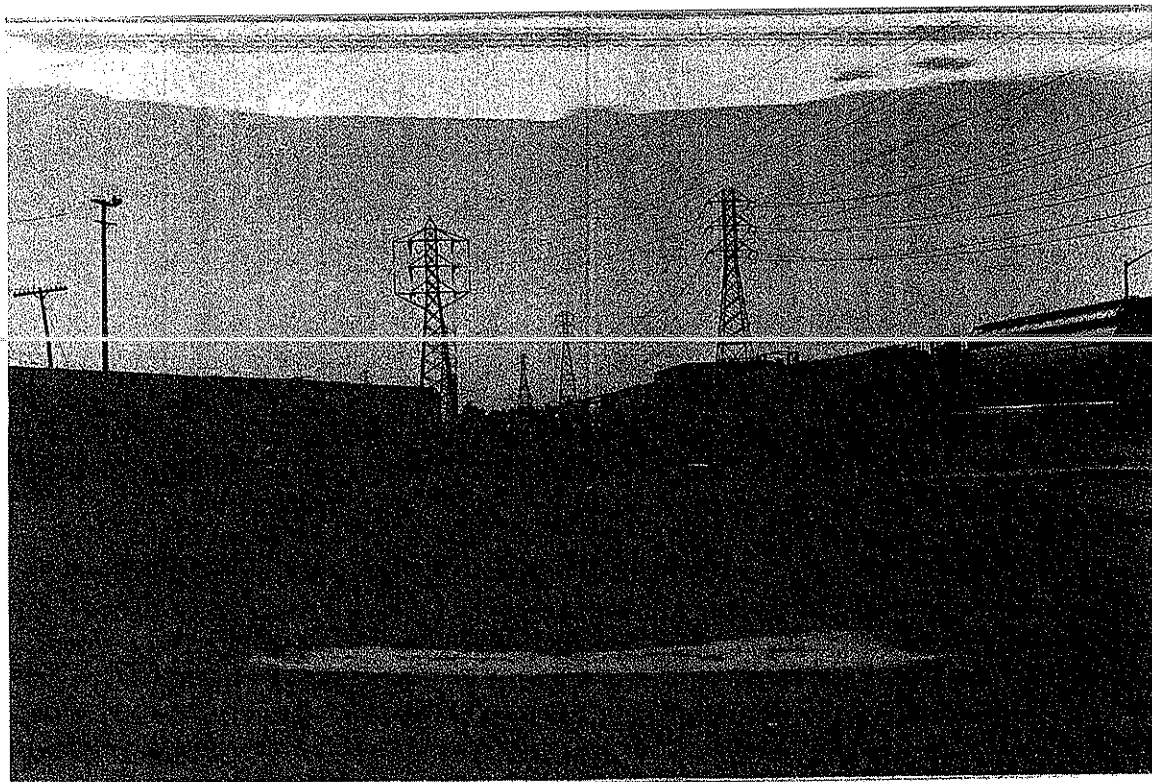


A typical view of the industrialized area around 1280 Doolittle Drive.

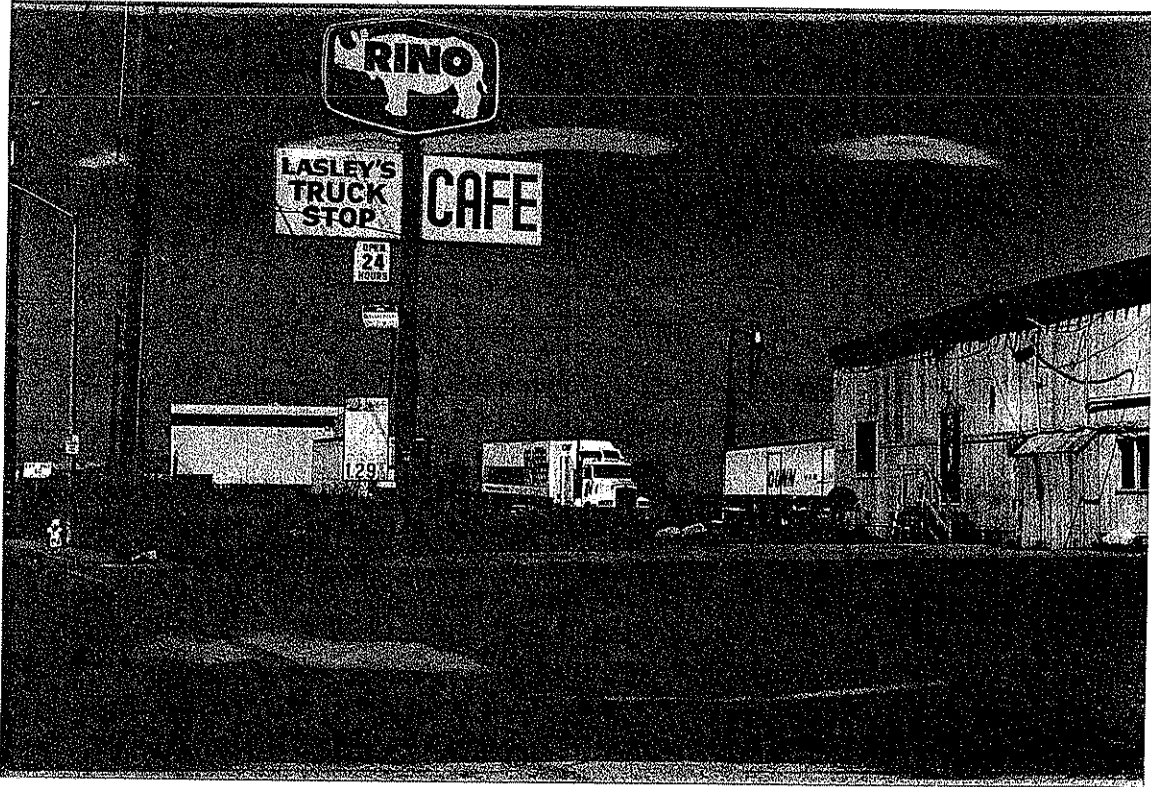




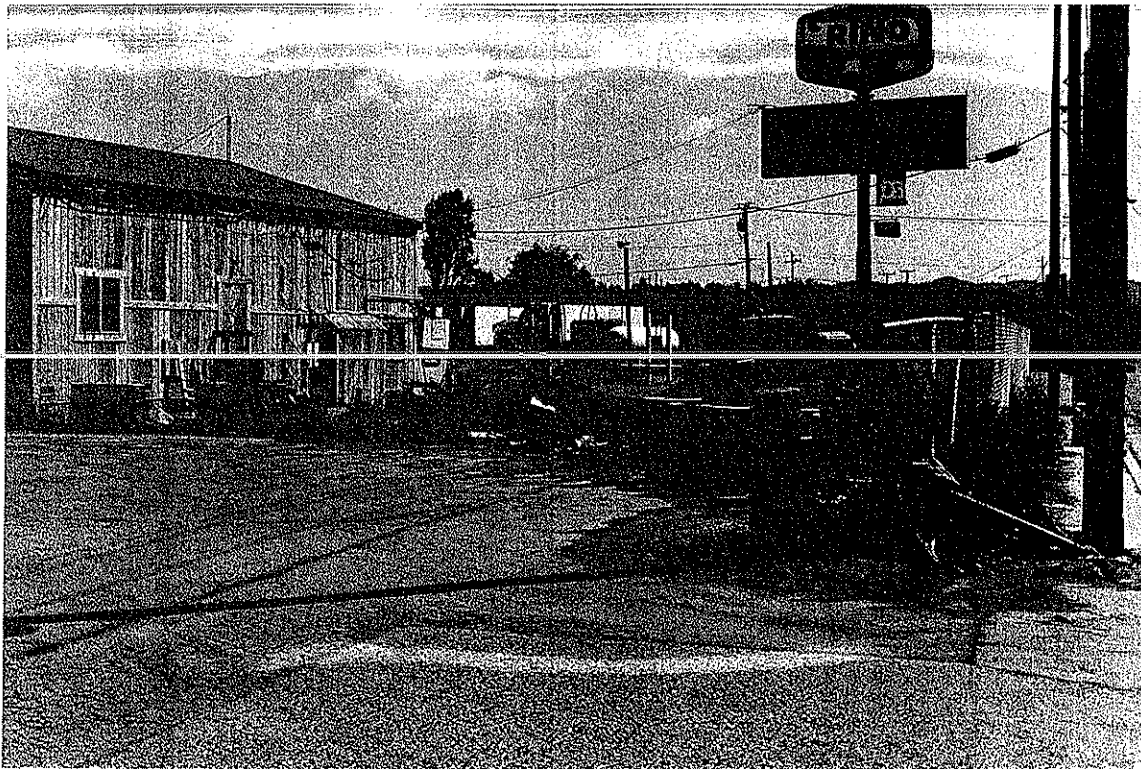
A view southwestward of the Southern Pacific Railroad system.



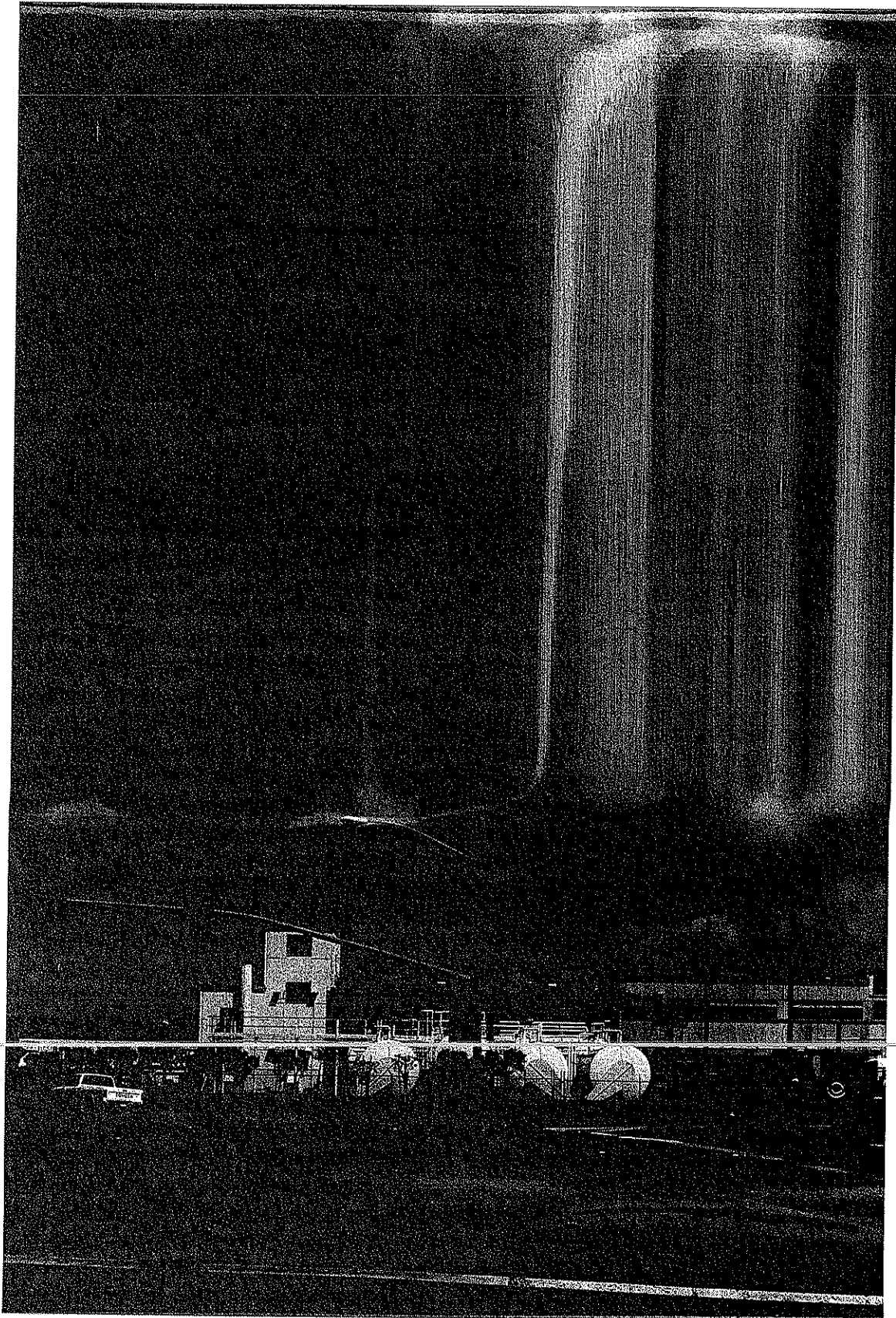
A view northward of the Southern Pacific Railroad system.



View westward of Lasley's Truck Station. Note the piles of soil and the barrels storing drill cuttings. See text for discussion.



View eastward of Lasley's Truck Station. Again, note the piles of soil and the barrels storing drill cuttings. See text for discussion.



View northward of W.R. Grace from the intersection of Doolittle Drive and Davis Street. See text for discussion.