

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION**

ORDER No. 95-063

ORDER AMENDING WASTE DISCHARGE REQUIREMENT ORDER NO. 86-042
AUTHORIZING ACCEPTANCE OF DESIGNATED WASTE FOR:

**BROWNING-FERRIS INDUSTRIES -
VASCO ROAD SANITARY LANDFILL
CLASS III SOLID WASTE DISPOSAL SITE
LIVERMORE, ALAMEDA COUNTY**

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter Board), finds that:

1. Browning Ferris Industries (hereinafter called the discharger) owns and operates the Vasco Road Sanitary Landfill (Vasco Road Landfill), a Class III municipal refuse disposal site located in the unincorporated area of Alameda County north of the City of Livermore.
2. The site is located adjacent to the northeast portion of the Livermore Valley on the north side of the Diablo Range (Figure 1). Access to the site is from the Vasco Road interchange on I-580 and from there north 3 miles on Vasco Road to the private access road.
3. The discharger operates Vasco Road Landfill as a canyon-fill and is constructed in intermediate phases until the ultimate configuration is reached. The 222-acre disposal area is comprised of four main areas as follows: (1) the original 80-acre unlined area, (2) Disposal Units 4 and 5 consisting of a 20-acre area with one foot of 1×10^{-6} cm/sec clay on the base and a 60 mil geomembrane on most side slopes (3) Disposal Unit 6 Phases 1A and 2A consisting of a 13-acre area with two-feet of 1×10^{-7} cm/sec clay and 80 mil geomembrane on the base and a geocomposite liner and 80 mil geomembrane on side slopes and (4) an undeveloped area of 109 acres.
4. Disposal Unit 6 Phases 1A and 2A cover 13 acres. The interim fill plan for this unit provides approximately 1.7 million cubic yards of airspace. When fully developed, total Disposal Unit 6 airspace will be approximately 4.1 million cubic yards. Based on a refuse to cover ratio of approximately 6 to 1, a compacted refuse density of approximately 1460 lbs/yd³ or 0.73 tons/yd³, and an average throughput rate of the refuse of approximately 1400 tons/day, the service life of the cell will be approximately 4.5 years.

5. The Board adopted Waste Discharge Requirement Order No. 86-042 on June 20, 1986. In addition, Order No. 93-113 adopted by the Board on September 15, 1993 amended Order No. 86-042 and updated the groundwater monitoring and liner requirements for the Vasco Road Landfill operation consistent with the requirements of Article 5, Title 23, Division 3, Chapter 15 of the California Code of Regulations (Chapter 15) and the provisions of Title 40, Part 258 of the Code of Federal Regulations (Subtitle D).
6. Vasco Road Landfill is classified as a Class III unit under Order No. 86-042. Disposal Unit 6 Phases 1A and 2A of the facility have been designed and constructed to be in compliance with the requirements of Subtitle D and meets the siting criteria and design requirements for a Chapter 15 Class II waste management unit.

Documents that support this finding are as follows: Geologic Mapping and Structural Evaluation dated December 15, 1993; Preconstruction Report for Disposal Unit 6 - Phase 1 dated February 25, 1994; Bid Package: Goesynthetics and Related Work for Phase 1A and 2A Liner Construction, Disposal Unit 6, dated May 3, 1994; Response to Regional Board Comments on Pre-Construction Report, Disposal Unit 6 - Phase 1, dated April 19, 1994; Waste Acceptance Within Disposal Unit 6 Phases 1A and 2A, dated June 17, 1994; Construction Drawings - Disposal Unit 6 Phases 1A and 2A dated May 1994; Final Report of Construction Quality Assurance Monitoring for Containment System Construction Disposal Unit 6 Phases 1A and 2A, dated October 24, 1994, Summary of Slope Stability Analysis - Disposal Unit 6 dated January 6, 1995; and Monthly Status Report - Slope Monitoring Disposal Unit 6, dated January 27, 1995. All reports were prepared by GeoSyntec Consultants. Regional Board staff letters pertaining to this finding are dated May 31, 1994 (approving the Disposal Unit 6 design) and November 4, 1994 (approving discharge of waste into Disposal Unit 6).

7. Title 23, Chapter 15, Section 2520(a) (1) states: "The waste classification in this article shall determine where the waste may be discharged unless the discharger establishes to the satisfaction of the regional board, that a particular waste constituent or combination of constituents presents a lower risk of water quality degradation than indicated by classification according to this article."

The construction standards of Disposal Unit 6 provide for a lower risk of water quality degradation than generally afforded by Class III landfills. The construction standards include two-feet of 1×10^{-7} cm/sec clay and 80 mil geomembrane on the base with a geocomposite liner and 80 mil geomembrane on side slopes and a leachate collection and recovery system. In addition, the unit was designed to withstand the maximum credible earthquake and the 1000-year 24-hour rainfall event. The Board

finds this is a satisfactory basis for amending the existing waste discharge requirements to allow disposal of designated waste in Disposal Unit 6 as detailed below.

8. Disposal Unit 6 Phases 1A and 2A of the facility and all subsequent units similarly designed and constructed in compliance with Subtitle D and Chapter 15 constitute ambient environmental conditions that will prevent nonhazardous waste from being released in concentrations exceeding applicable water quality objectives or that could reasonably be expected to affect beneficial uses of the waters of the State.
9. A landslide developed in January 1995 in a cutslope near the new disposal unit area. There is a potential for this landslide to damage the Disposal Unit 6 liner system. However, the potential for this is believed to be remote due to the geometry of the landslide. The landslide is about 350 feet wide and 250 feet in length and located about 160 feet away from the current Unit 6 disposal area (Figure 3 and 4). A slope monitoring program is in place and contingency plans call for excavating material at the head of the slide and placing it at the toe of the slope if significant movement occurs. The landslide will be excavated in the Summer of 1995 as part of the discharger's landfill development plans.
10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.
11. This action is an Order to enforce the laws and regulations administered by the Board. This action is categorically exempt from the provisions of CEQA pursuant to Section 13389 of Division 7, Chapter 5.5 of the California Water Code.

IT IS HEREBY ORDERED that, pursuant to Section 13263 of Division 7, Chapter 4, Article 4 of the California Water Code, the requirements of Order No. 86-042 for the Vasco Road Landfill are amended to include the following:

1. In disposal Unit 6 Phase 1A and 2A and all subsequent units similarly designed and constructed, the discharger is authorized to accept all waste that is not hazardous as defined in Section 2521 of Title 23, Division 3, Chapter 15, Article 2 of the California Code of Regulations (CCR), which incorporates the definition of hazardous waste under CCR Title 22, to include waste streams that might otherwise fall under Section 2522 (a) (1) of Chapter 15, but excluding waste streams that fall under Section 2522 (a) (2) of Chapter 15.

2. The discharger must comply with the conditions identified below:
 - a. The Vasco Road Landfill shall not receive any wastes that are either characteristically hazardous or listed as hazardous under Title 22, Division 4.5, Chapter 11 of the California Code of Regulations, with the exception of asbestos containing waste that may be disposed to land in a Class III facility in accordance with Section 25143.7 of the Health and Safety Code and Sections 66268.29 (m), 66268.100 (a)(13) and 66268.114 of CCR Title 22.
 - b. Vasco Road Landfill shall not receive any wastes that are either characteristically hazardous or listed as hazardous waste under Title 40, Part 261 of the Code of Federal Regulations.
 - c. The Vasco Road Landfill shall not receive any hazardous waste which has been granted a variance from hazardous waste management requirements such that it is considered designated waste under Section 2522 (a) (2) of Chapter 15 based on such waste constituting hazardous waste which has been granted a variance from hazardous waste management requirements pursuant to Section 24143 of Division 20, Chapter 6.5, Article 4 of the California Health and Safety Code.
 - d. The Vasco Road Landfill shall develop and implement the following programs as outlined in a Regional Board staff letter dated November 4, 1995 to BFI: (1) a periodic load checking program, (2) a program for restricting designated waste to Disposal Unit 6 and similarly designed units and (3) a waste characterization program.
 - e. The discharger shall submit a technical report by **July 15, 1995** documenting excavation of the landslide above Disposal Unit 6 Phase 2A and stabilization of the cutslope as shown on Figures 3 and 4.
3. Reporting - The discharger must report the tonnage of the following materials in the facility's self monitoring report on a quarterly basis:
 - a. Municipal solid waste:
 - b. Construction and demolition waste: and
 - c. Industrial waste, to include, but not limited to: (1) asbestos, (2) ashes, (3) auto shredder fluff, (4) petroleum contaminated soils, (5) lead contaminated soils, (6) sewage and wastewater treatment sludges with metal content, (7) industrial sludges, and (8) industrial filters from cleaning processes.

4. The subject change and waste acceptance policy may affect the Constituents of Concern (COC) in the Discharge Monitoring Program as identified in Order No. 93-113.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing is a full, complete, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 15, 1995.



Steven R. Ritchie
Executive Officer

Attachments:

- Figure 1. Location Map
- Figure 2. Fill Area Locations
- Figure 3. Map showing relationship of landslide to Disposal Unit 6 Phase 2A.
- Figure 4. Cross Section showing relationship of landslide to Disposal Unit 6 Phase 2A.

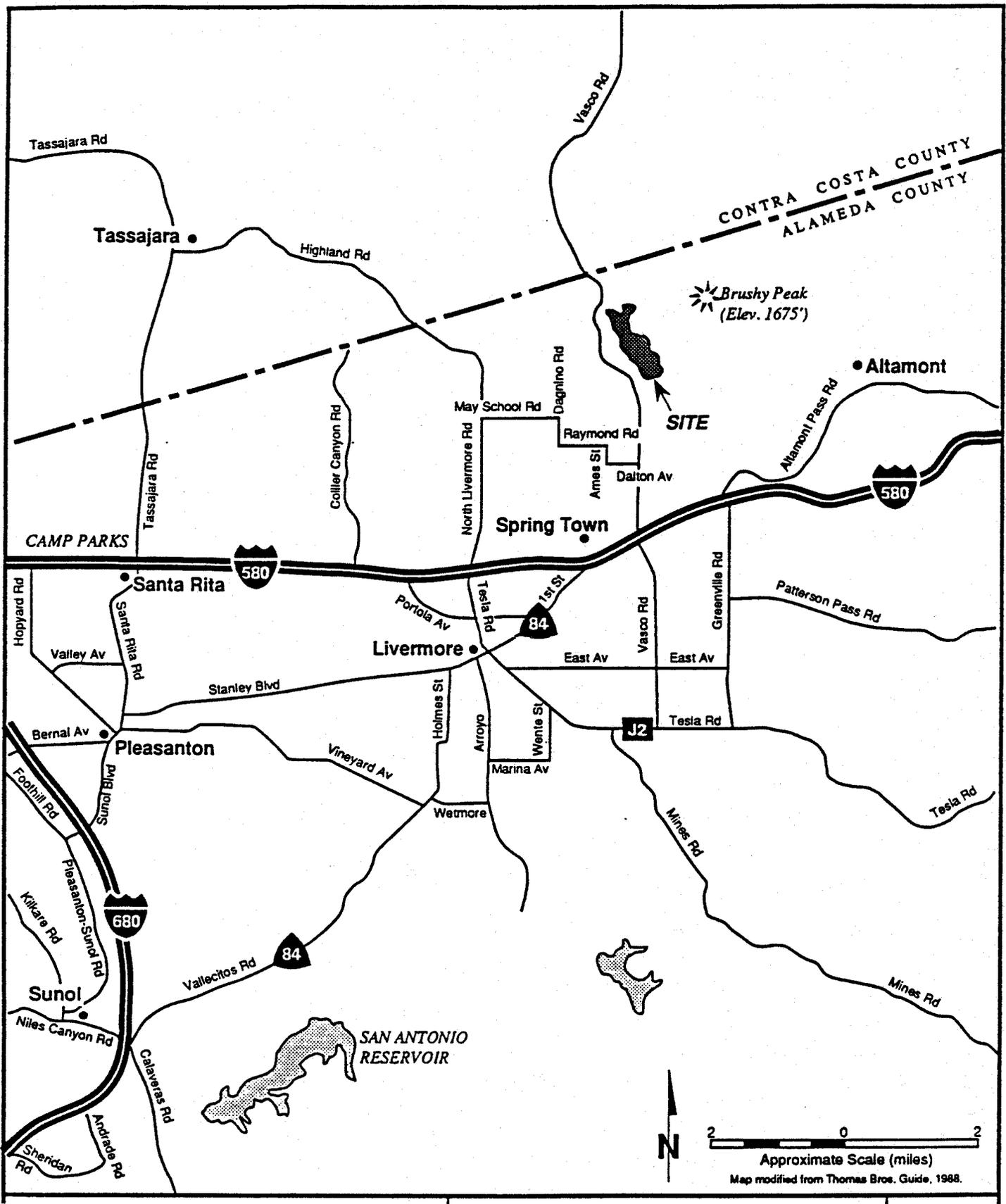


Figure 1. Location Map - BFI Vasco Road Sanitary Landfill, Livermore, CA

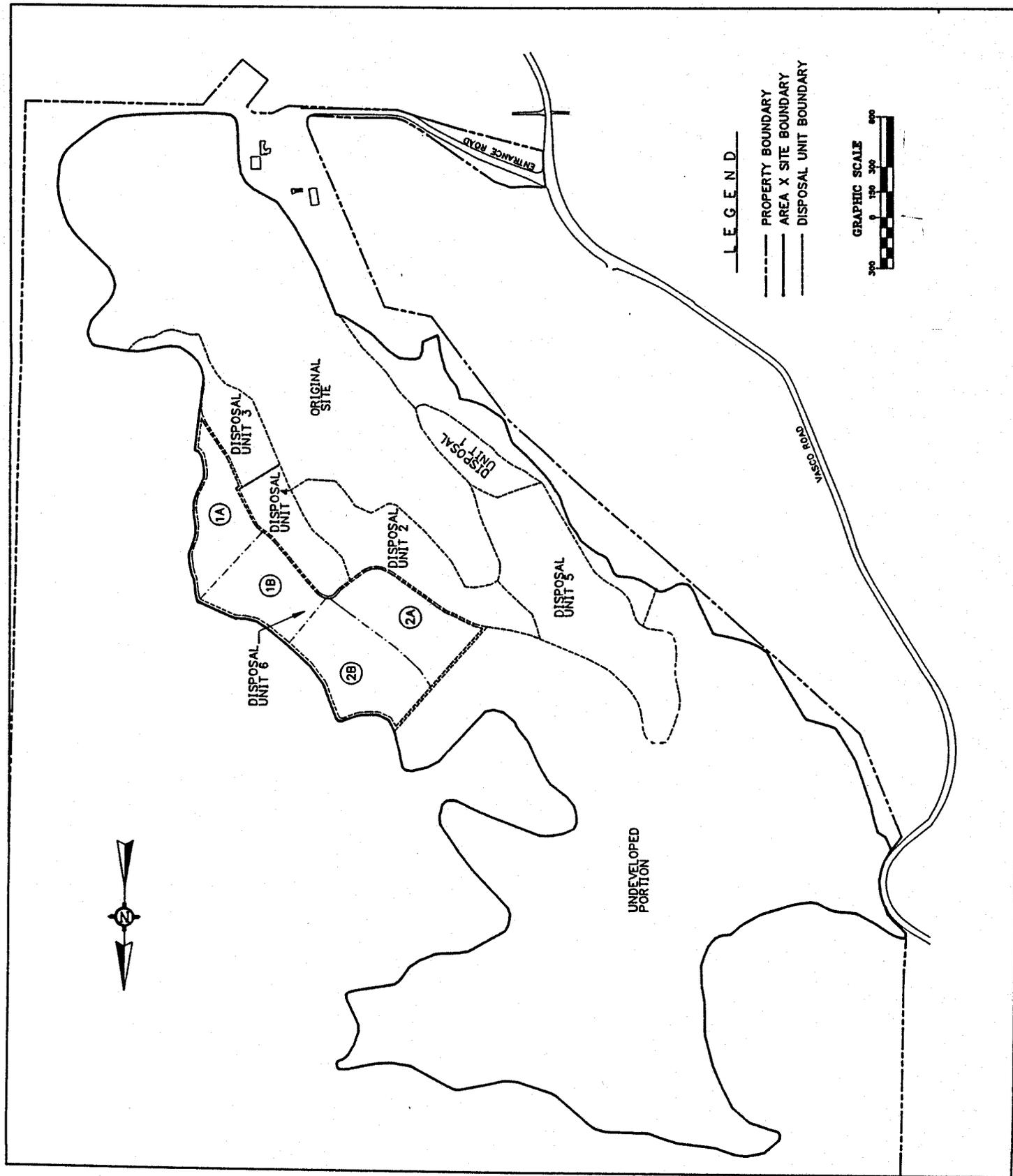


Figure 2. Fill Area Locations - BFI Vasco Road Sanitary Landfill, Livermore, CA

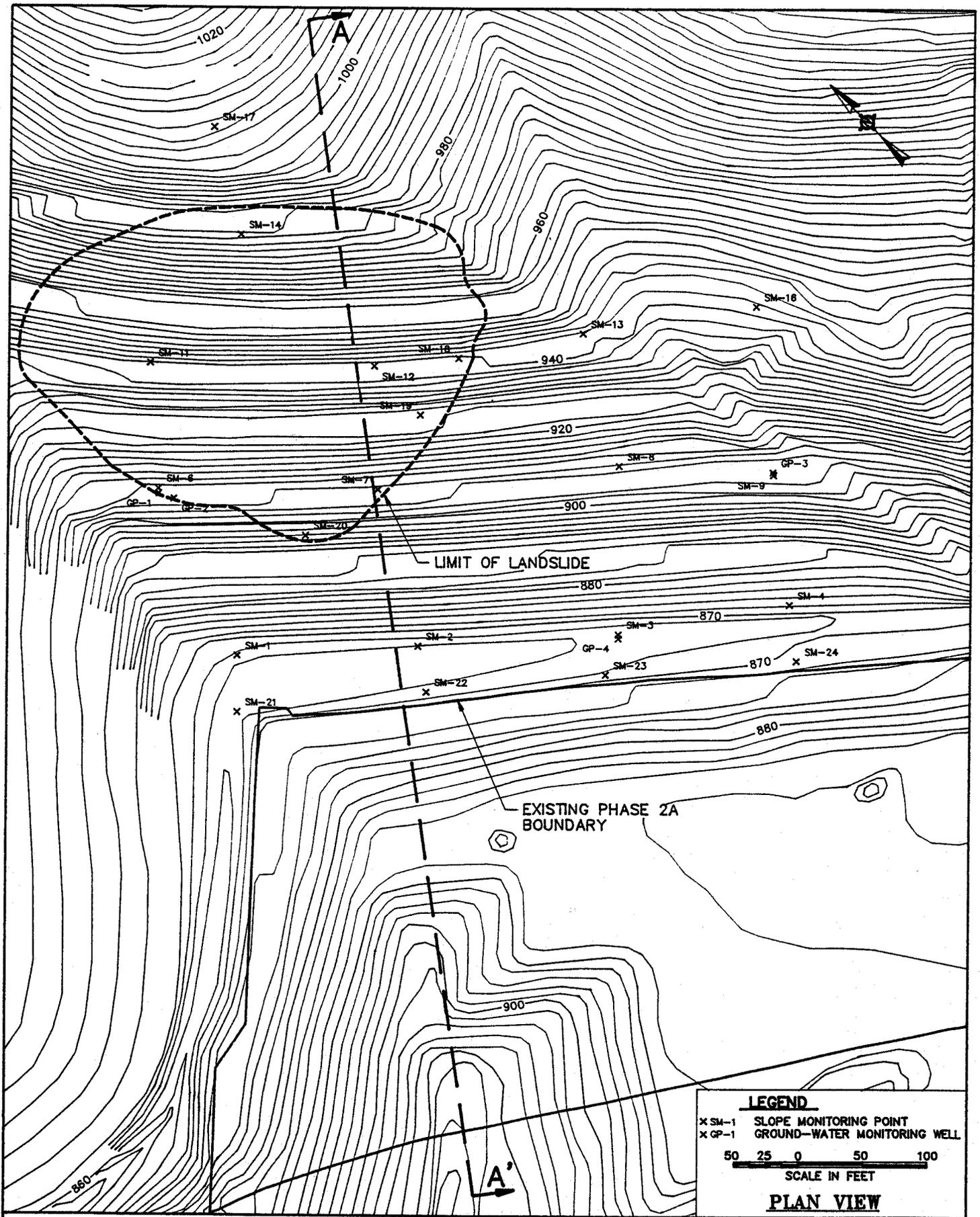
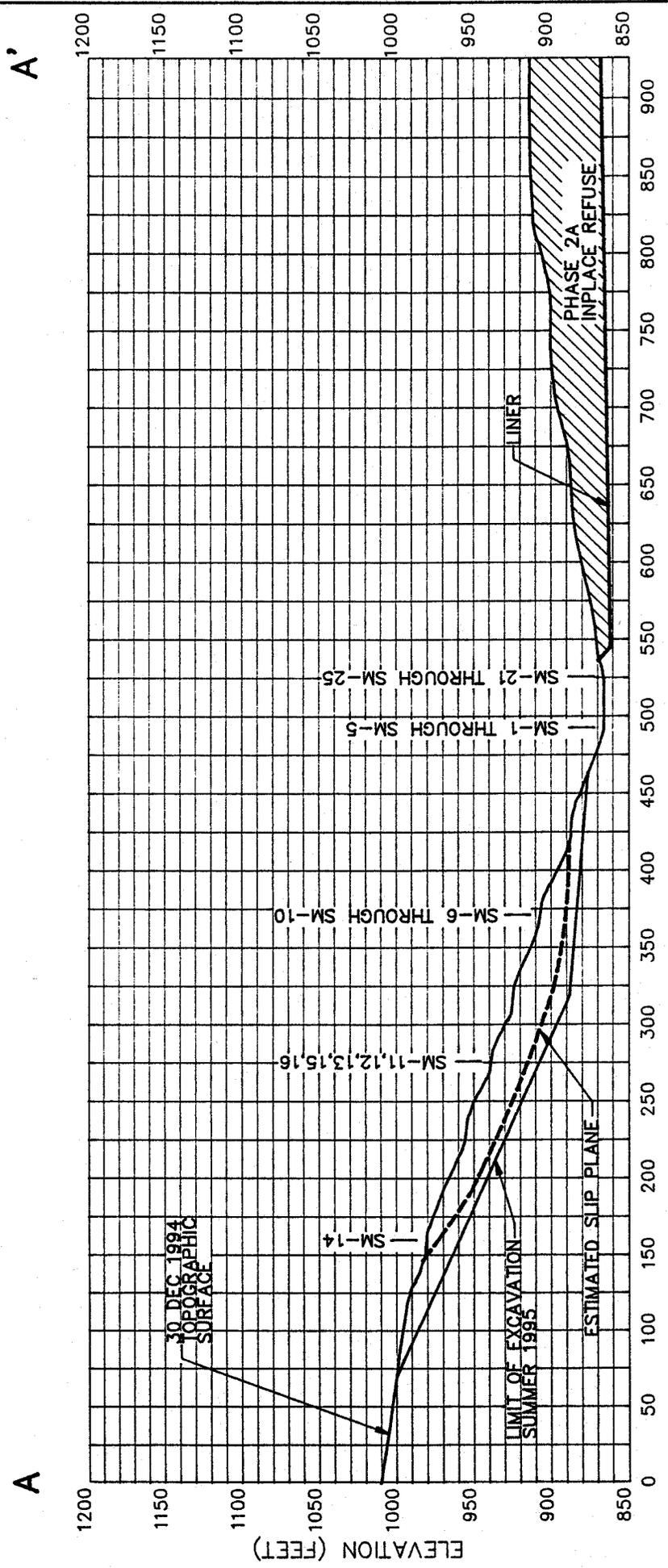


Figure 3. Map showing relationship of landslide to Disposal Unit 6 Phase 2A (From GeoSyntec Consultants, January 1995 report).



NOTE: DIP OF BEDDING IS APPROXIMATELY 70° SOUTHWEST.

SCALE: 1" = 100'

CROSS SECTION A-A' THROUGH DISPOSAL UNIT 6

Figure 4. Cross Section showing relationship of landslide to Disposal Unit 6 Phase 2A (From GeoSyntec Consultants, January 1995 report).