ES

TRANSMITTAL

ENGINEERING — SCIENCE, INC.
600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970

Date: *4 June 1990*
ES Project No. *NC222.01*

IF MATERIAL NOT AS LISTED,
PLEASE NOTIFY US AT ONCE

To: *Alameda County Department of Environmental Health*
80 Swan Way, Room 200
Oakland, California 94621

Attn: *Mr. Dennis Byrne*
Re: *P.O. Partners*

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☒ **DOCUMENTS** ☐ **COPY OF LETTER**
☐ **SPECIFICATIONS** ☐ ____

COPIES	DATE	ITEM
1	*6/1/90*	*Letter re: P.O. Partners Remedial Action Plan (RAP) for the 1650 65th Street Property in Emeryville.*

REMARKS *Hand delivered by Clyde Wong.*

COPY TO

☒ File
☒ Author
☒ Reading File
☒ *R.S. Makdisi*

SIGNED: *Clyde Wong for*
Richard S. Makdisi, Project Manager

(ES Berk 6 78)

ES
ENGINEERING-SCIENCE, INC.

600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970

6 April 1988
Ref: NC049.10

Benefit Capital Corporation
1330 Broadway, Suite 500
Oakland, CA 94612

Subject: Implementation of Remedial Action Plan Report for United States Postal Service Site at 1650-65th Street, Emeryville, California

Attn: Mr. Ron Schwartz and Mr. Anthony Duckworth

Dear Sirs:

INTRODUCTION

This report describes the implementation of a Remedial Action Plan as described by Engineering-Science (ES) in a proposal dated 7 October 1987 to Benefit Capital Corporation (BCC) for the 1650 65th Street property in Emeryville, California. The Remedial Action Plan (RAP) and its implementation are the end result of site characterization studies associated with the removal of an abandoned underground storage tank (UST), and meetings and discussions with representatives of the Alameda County Department of Environmental Health, Division of Hazardous Materials (ACDEH).

Implementation of the RAP was initiated on 24 February 1988 and was completed on 17 March 1988. Site remediation, consisting of soil excavation and disposal, was conducted by Riedel Environmental Services in accordance with the specifications for the Removal and Disposal of Contaminated Soil and Addendum dated 3 March 1988. These documents are included with this report as Appendix A.

The scope of this report includes a brief description of the site history, a summary of previous site characterization reports, and a description of remedial action implementation. The health and safety plan for this site was provided in a separate ES report dated February 1988 (Reference 1).

SCOPE OF WORK

The scope of work included the following tasks:

1) Preparation of the Remedial Action Plan for the site;
2) Submission of the Remedial Action Plan to the California Regional Water Quality Control Board (RWQCB) and ACDEH;

3) Meeting the regulatory agency personnel to discuss their concerns regarding the Remedial Action Plan;
4) Preparation of a brief bid document for the remedial action work, including brief and concise general specification for the work, a contract form, insurance provisions, etc.;
5) Assisting BCC with qualified contractor selection;
6) Sampling/monitoring during excavation of the contaminated areas and determining the demarcation of contaminated soil;
7) Volume calculation of the total contaminated soil excavated based on pre- and post-excavation surveys;
8) Assisting the client (BCC) in general contract administration.

REGIONAL GEOLOGY

The hills above Emeryville consist of Tertiary sediments and volcanics overlying Jurassic-Cretaceous bedrock of the Franciscan Assemblage. The hills are part of the California Coast Range, and result from repeated episodes of deformation by folding and faulting over the last three million years. This uplift contributed to rapid erosion and deposition of a thick sequence of poorly consolidated alluvial fan deposits. Fluctuation in sea level, as a result of continental glaciation, accelerated this process. As much as 540 feet of this late Tertiary/early Quaternary sediment is believed to overlie bedrock in the Emeryville area.

The oldest alluvial fan deposits consist of poorly consolidated interbedded silts, sands, and gravels known as the Alameda Formation (Qa). These in turn are overlain by 10 to 15 feet of alluvium and stream deposited sands and silts of the Temescal formation (Qtc). North of Powell Street in the area of the project site, the Temescal sands and silts are overlain by 30 feet of Merritt sand, a generally fine-grained and well-sorted beach and windblown sand deposit. Overlying these sands in this area are 10 to 20 feet of Bay Mud.

SITE LOCATION AND HISTORY

The 1650 65th Street property is located in western Emeryville, west of the Southern Pacific railroad tracks and two blocks south of the Emeryville-Berkeley city boundary. The site covers approximately 5.5 acres. A site location map is shown in Figure 1.

The property was originally located at approximately mean sea level elevation, in the tidal plain of San Francisco Bay. Construction of the East Shore Highway in 1954 created a levee protecting the inland parcels along the former shoreline (Reference 2). The site was filled by the City of Emeryville, which used the area as a municipal dump from the early 1940s to the mid-1950s. In the 1950s, the property was developed by construction of the existing warehouse. The property was then leased by Louis Stores, a supermarket company. In 1973, the warehouse was taken over by the United States Postal Service (USPS) as a repair and

distribution center for postal service equipment. To date, the USPS leases the warehouse from Wareham Development, the current property owner (Reference 3). A site plan of the 1650 65th Street property is shown in Figure 2.

SUBSURFACE CONDITIONS

Based on site history and the soils encountered during ES geological borings, subsurface soil at the site consists of fill materials to depths of approximately 12 to 18 feet. These consist of heterogeneous layers of clayey and gravelly sands and silty and sandy clays, with scattered wood, wires, brick, and concrete debris. These materials are described in monitoring well and borehole logs included in Appendix B.

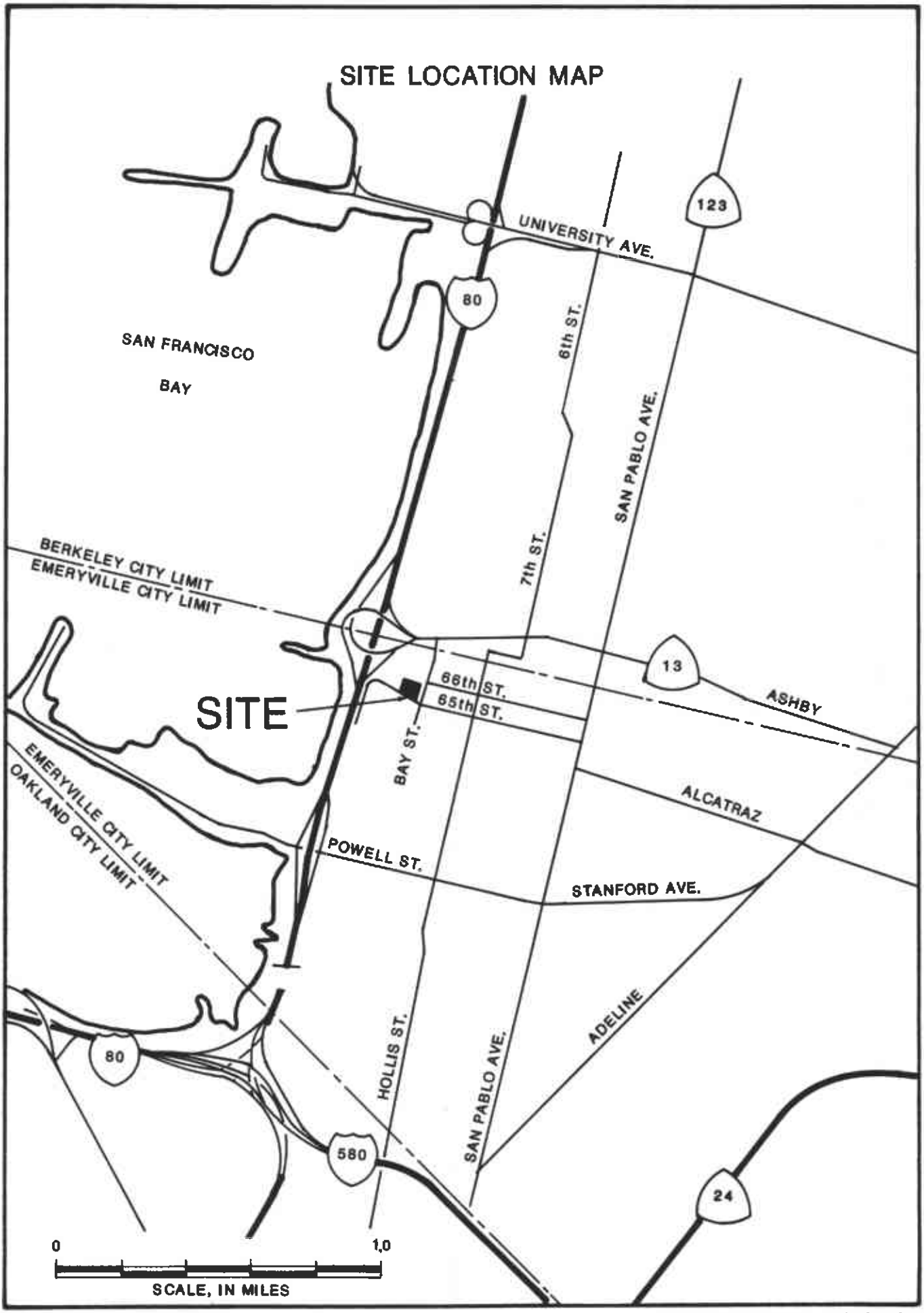
The upper four (4) feet of soil encountered during soil excavation consist of light brown (tan) sandy silt with some gravel. This layer of soil rests on dark brown to black silty clay with sand and gravel up to a depth of 13 feet. The bottom layer explored during the excavation consists of dark grey to black, silty, medium to coarse sand with some clay. Groundwater was encountered at a depth of 13.5 feet. A cross-section of the soil stratigraphy observed in the excavation is shown in Figure 3.

PREVIOUS STUDIES

Soil contamination was discovered in the southeastern corner of the property during the removal of an underground storage tank (UST) on 2 July 1987 and the installation of a groundwater monitoring well, MW-1, on 27 July 1987. The 2,000-gallon capacity UST is estimated to have been in place for over 20 years and is reported to have contained at various times both gasoline and waste oil. At the time of its removal, neither the tank nor the pipe exhibited signs of corrosion, although the product line fittings were rusty. The observed soil contamination is therefore interpreted to have been caused by leaks in the product line fittings.

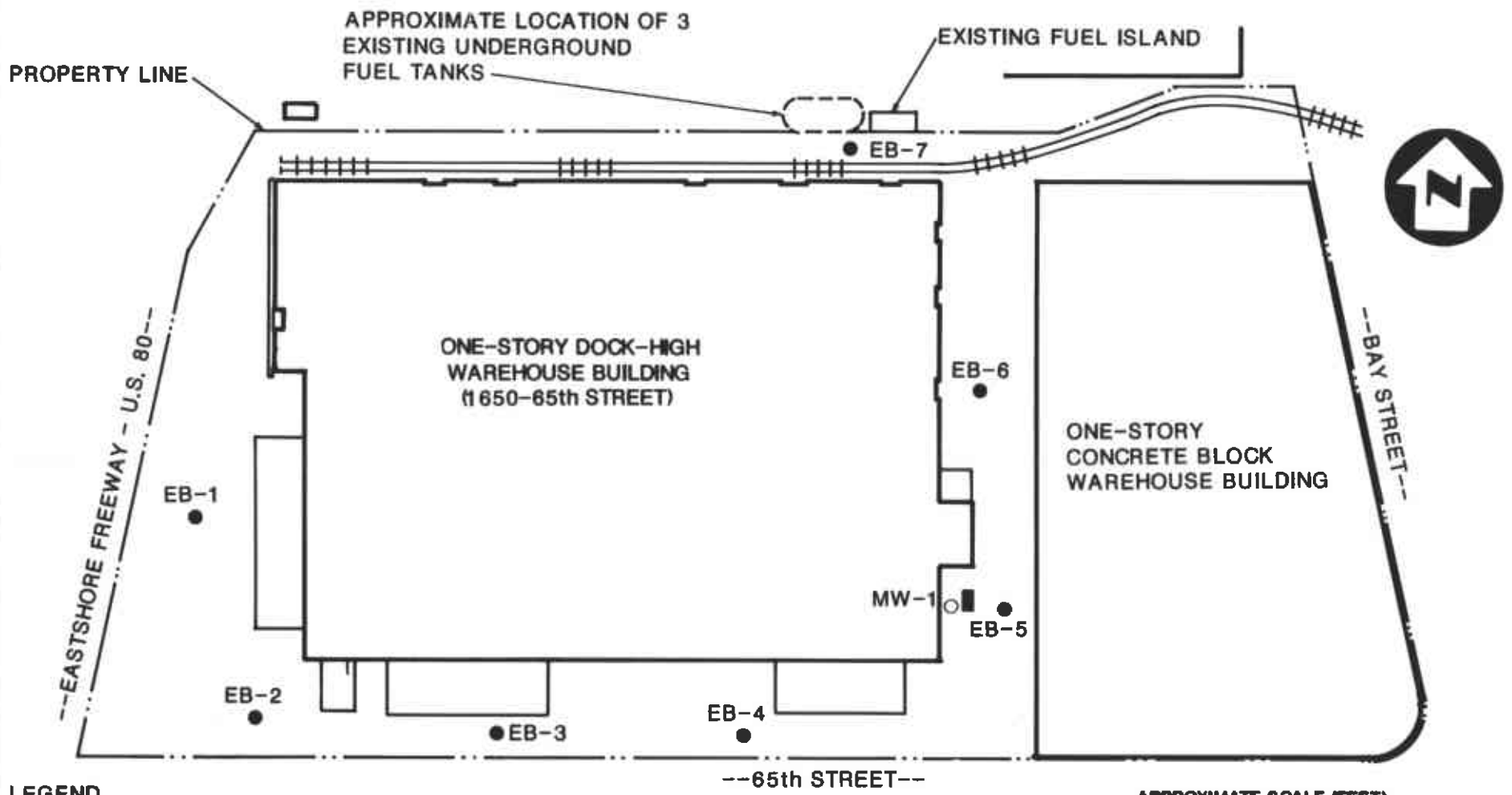
Analytical results from soil samples taken from the site indicate contamination of soil by total fuel hydrocarbons (TFH) and lead. TFH levels were found to be highest roughly five feet west of the UST, with 170 mg/kg (gasoline) found in a soil sample taken from a depth of five feet (sample MW-5) and 6,600 mg/kg (gasoline and diesel) found in a soil sample taken from a depth of 10 feet (sample MW-10). A soil sample taken from beneath the product line at a depth of three feet was found to contain 490 ppm TFH (sample FP-1). Hydrocarbon contamination was not detected beneath the tank itself (samples N-1 and S-1). A groundwater sample collected from monitoring well MW-1 was found to contain 33 mg/l TFH. Sampling locations and analytical results are presented in Table 1.

FIGURE 1



ENGINEERING-SCIENCE

SITE PLAN



LEGEND

MW-1 ○ MONITORING WELL INSTALLED BY ENGINEERING-SCIENCE

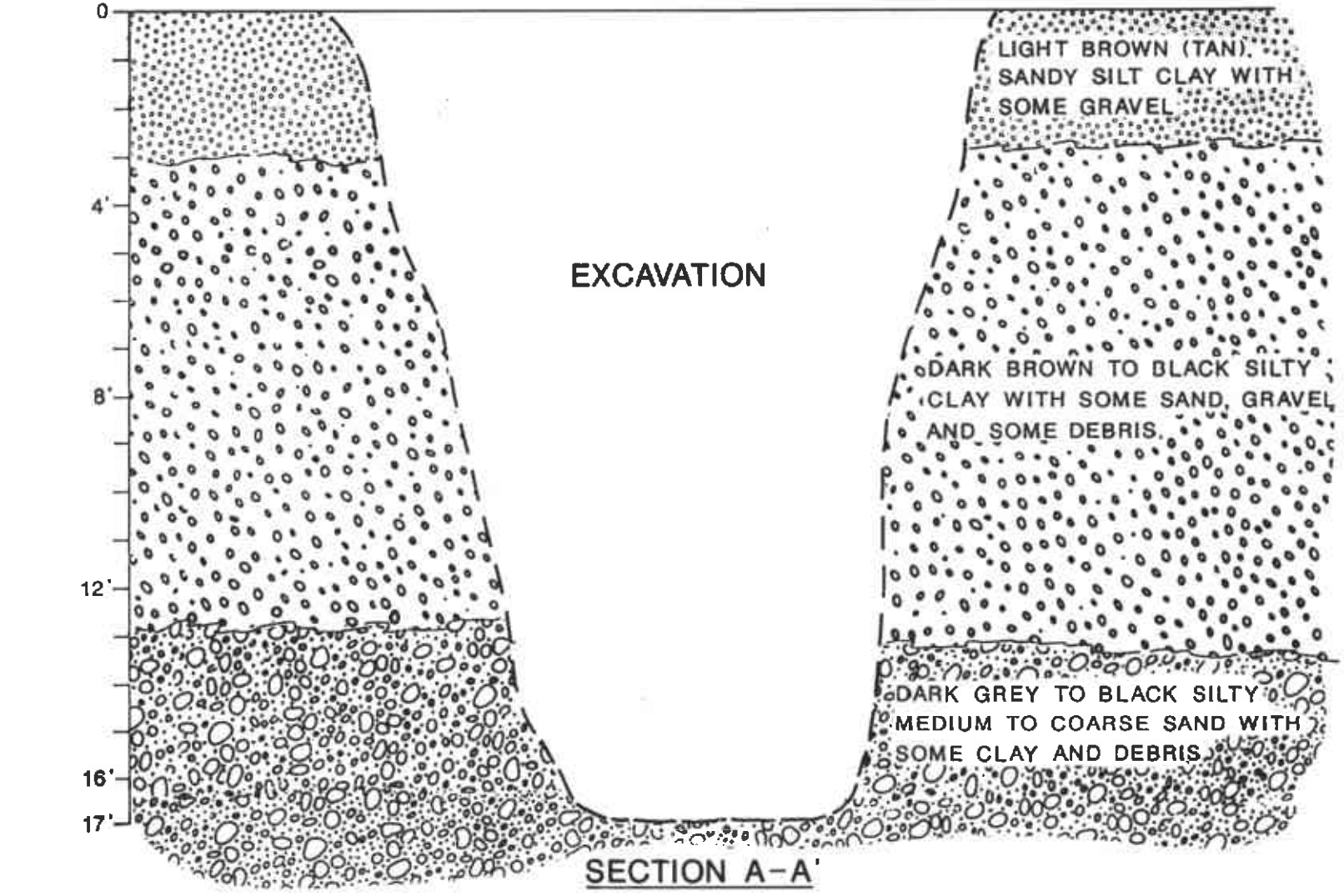
EB-6 ● APPROXIMATE LOCATION OF EXPLORATORY BORINGS, PETER KALDVEER AND ASSOCIATES 1987

■ EXCAVATED TANK

BASE: PETER KALDVEER AND ASSOCIATES, INC. 1987, FROM "TOPO MAP", BY TRONOFF ASSOCIATES, DATED FEBRUARY 3, 1983

ENGINEERING-SCIENCE

FIGURE 2

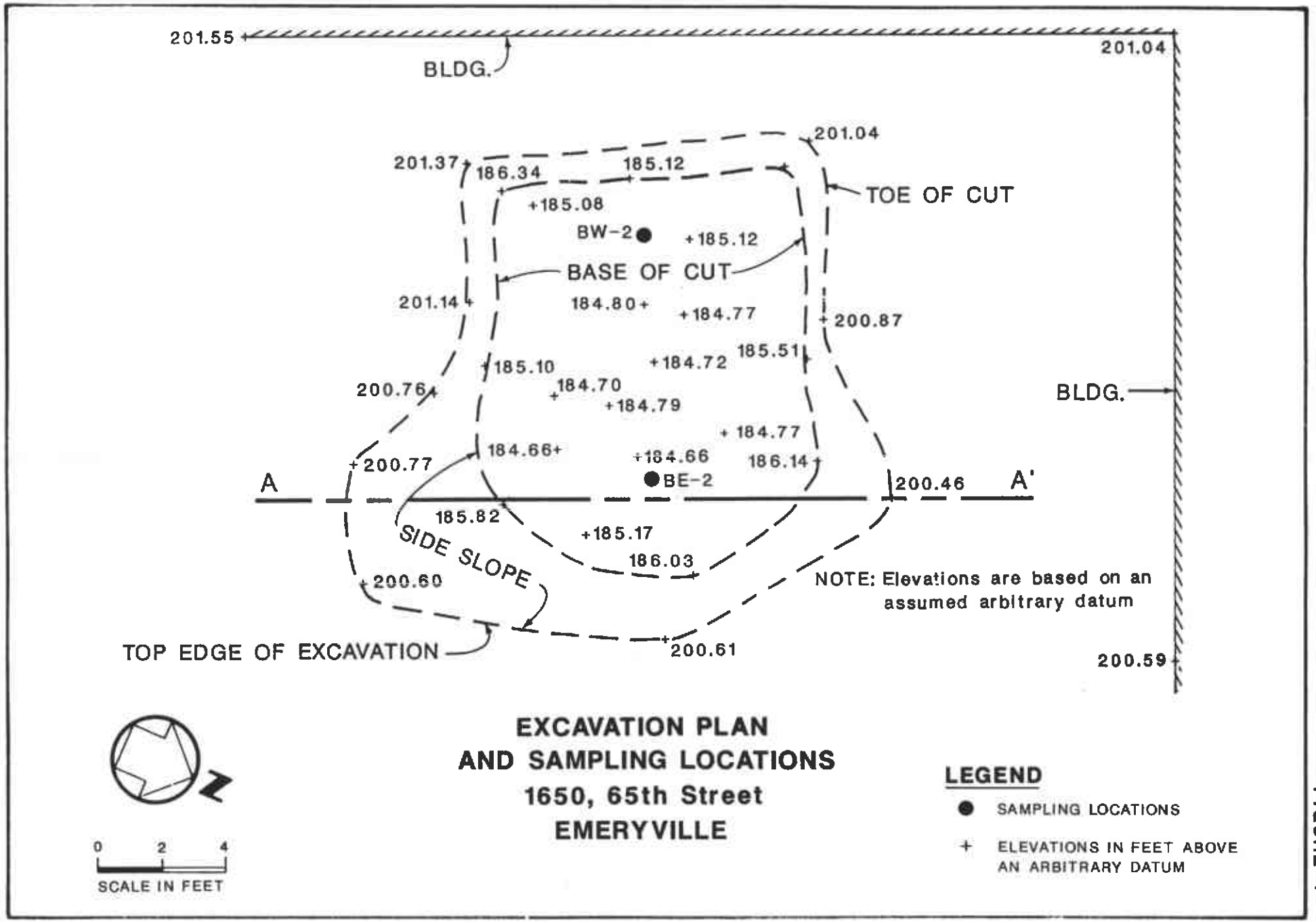


SECTION A-A'

SOIL STRATIGRAPHY ALONG EXCAVATION
1650, 65th Street
EMERYVILLE

ENGINEERING-SCIENCE

FIGURE 3



ENGINEERING-SCIENCE

FIGURE 4

TABLE 1

SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS

Sample I.D.	Date Sampled	Depth (ft)	Location of sample	Matrix	Total Fuel Hydrocarbons	EPA Method 8020 Toluene (ppm)	EPA Method 8020 Xylene (ppm)	Lead (mg/kg, dry)
N-1	7/2/87	12	Beneath tanks	Soil	ND	ND	ND	5
S-1	7/2/87	12	Beneath tanks	Soil	ND	ND	ND	4.8
FP-1	7/2/87	3	Beneath product line	Soil	490 ppm	0.90	23	36
MW-5*	7/27/87	5	5' west of UST	Soil	170 mg/kg	NA	NA	NA
MW-10*	7/27/87	10	10' below ground surface	Soil	6,600 mg/kg	NA	NA	NA
MW-1	7/28/87		Monitoring Well 1	Water	200 mg/kg	NA	NA	NA
EB-5	4/13/87	7.5, 9	Location on Figure 2	Soil	200 mg/kg	NA	NA	NA
BW-1	2/24/88	12.5	Bottom of excavation (12.5')	Soil	4,800 mg/kg	200	350	17
SW-1	2/24/88	8, 9.5	Sides of excavation	Soil	6.5 mg/kg	0.11	0.25	NA
SNE-1	2/24/88	9.5	Sides of excavation	Soil	520 mg/kg	5.6	78	NA
BW-2	3/9/88	17	Bottom of excavation (17')	Soil	390 mg/kg	56	51	ND
BE-2	3/9/88	17	Bottom of excavation (17')	Soil	ND	ND	ND	ND

* All gas
** Gas, diesel, and waste oil

NA = Not Analyzed
ND = Below Detection Limits

The RWQCB guidelines require the excavation of soil containing greater than 1,000 ppm total petroleum hydrocarbons and the installation and quarterly sampling of a downgradient groundwater monitoring well. Following these guidelines, a remedial action plan was submitted on 18 December 1987 to the ACDEH (Reference 4). Because of the proximity of monitoring well MW-1 to the tank, abandonment of the 30-foot monitoring well was required prior to tank removal. The plan stipulated the excavation and disposal of soil containing greater than 1,000 ppm total petroleum hydrocarbons at a Class 1 hazardous waste landfill by a State of California Certified Hazardous Waste Hauler. The installation of an additional monitoring well for quarterly groundwater monitoring over a period of one year was not mentioned in the remedial action plan.

SOIL REMEDIAL ACTION PLAN IMPLEMENTATION

The soil remediation action plan was carried out in two phases: the abandonment of monitoring well MW-1 and the excavation and disposal of contaminated soil and subsequent backfilling with clean soil. Specifications for the removal and disposal of contaminated soil are included listed in Appendix A.

Phase 1 - Well Abandonment

The first phase of the soil remediation plan involved abandonment of monitoring well MW-1. The location of this well in relationship to the tank location is shown in Figure 2. The well consisted of two-inch inside diameter (ID) PVC casing to a depth of 30 feet with 0.010-inch slotted casing from 9 to 30 feet below ground surface. Well completion details are included in Appendix B. The well was closed and abandoned on 20 January 1988. The casing was removed by drilling through the sanitary seal bentonite plug and gravel pack to a depth of 10 feet with an 8-inch outer diameter (OD) hollow stem auger. The PVC casing was then pulled from the ground and drilling continued to a depth of 30 feet (the bottom of the orginial borehole). The resulting borehole was grouted with a mixture of 95 percent cement and 5 percent bentonite, poured through the hollow auger stem as the stem was pulled from the hole. The site was cleaned after the completion of the job, and the cement was allowed to set for over one month before beginning excavation in the immediate vicinity.

Phase 2 - Soil Excavation

Phase 2 operation consisted of excavation and disposal of soil containing greater than 1,000 ppm total petroleum hydrocarbons and backfilling the excavation with clean soil. Initially the depth of excavation was estimated to be 12 feet (just above the ground water level). The depth of excavation was increased to 16.5 feet, as per instructions from ACDEH, since 4,800 mg/kg of Total Petroleum Hydrocarbons (TPH) were detected in soil samples collected at a depth of 12.0 feet.

The initial phase of excavation, to a depth of 12 feet, was carried out on 2 February 1988 using backhoe model 580E Extendahoe. The excavated soil was stockpiled in the yard area on a 10 mil plastic liner to avoid the contamination of underlying soil. The edges of the plastic liner were elevated at least four inches to contain any precipitation run-on or runoff of contaminated water draining from the excavated soil. At the end of each day, the stockpiled soil was completely covered with plastic. Edges of the plastic cover were weighted to prevent the plastic from shifting or blowing away.

A Photovac TIP (photoionization detector) was used in addition to visual and olfactory means as a preliminary aid to determine the extent of contamination at the site. Soil samples were then collected from the sidewalls and the base of the excavation for analysis to ascertain if the residual hydrocarbon concentrations are of regulatory and/or health risk concern.

Sampling protocol consisted of driving a clean brass sampling tube into the soil removed from the excavation by backhoe. The tubes were capped with nonreactive materials, refrigerated, and transported to the analytical laboratory. Five soil samples were collected at the end of the day along the sides and the bottom of the excavation. The following samples were analyzed by U.S. EPA Method Modified 8015 for Total Petroleum Hydrocarbons (gasoline, diesel, and waste oil components) and by U.S. EPA Method 7421 for lead: 1) a composite of two samples (SW-1 and SS0-1 listed as SW-1 in Table 1) collected along the southwest and east side of the excavation at a depth of 9.5 feet from the ground surface, and 2) sample SNE-1 along the side of the excavation. The sampling locations, depths, dates, and analytical results on all the samples collected to date are summarized in Table 1. Analytical results on all the samples collected to date are included in Appendix C.

A concentration of 4,800 mg/kg TPH was detected in the composite sample collected from the bottom of the excavation at a depth of 12 feet. The excavation was deepened to 16.5 feet as instructed by ACDEH for TPH contamination in the soil in excess of 1,000 mg/kg. Two soil samples (BW-2 and BE-2) were collected from the bottom of the excavation at a depth of 17 feet using the same sampling procedures discussed above. Sample BW-2 showed a concentration of 390 mg/kg TPH and a lead concentration below detection limits. Sample BE-2 showed the concentrations of TPH, toluene, xylene, and lead below the detection limits. The locations of these bottom samples are shown on a final survey diagram of the excavation in Figure 4.

Approximately 92 cubic yards of soil were excavated from the site by a state certified hazardous waste hauler. The soil was covered with plastic and transported to Casmalia Ranch, a certified Class I hazardous waste site.

Groundwater which had accumulated in the excavation was pumped out, collected, and transported in a tank truck to M & M Ship Service, San Francisco. Copies of all the related Uniform Hazardous Waste Manifests are included in Appendix D.

The entire excavation was performed without any side support to shore the walls of the excavation. Shoring was not considered necessary based on the past experience of ES engineers working in the same area. ES personnel kept a regular surveillance on movement or stress development in the excavation side walls and the adjacent wall of the USPS warehouse. No such signs were observed during the entire operation. Photographs of the excavation and field inspection notes are presented in Appendices E and F.

The validity of analytical results for soil samples collected below the water table in an excavation was discussed with representatives from the ACDEH (Reference 5) and the RWQCB (Reference 6). Since the concentrations of TPH in bottom-of-excavation samples (16.5 feet deep) were below 1,000 mg/kg, the excavation was backfilled on 16-17 March 1988 following ES specifications (Appendix A). Gravel ranging in size from 1/2-inch to 3/4-inch was dumped into the excavation up to groundwater level without using any additional compactive effort. The rest of the excavation was backfilled using eight-inch layers (lifts) of Type E material (as defined in section 19-3.06 of the CalTrans Standard Specifications, July 1984 edition). This material was compacted to 90 percent relative compaction of California Test No. 216. The compaction was carried out using a vibratory plate-type compactor (HOPAC) fitted on the backhoe extension and operated by the backhoe operator. ES personnel supervised the compaction of the backfill. No tests were performed to evaluate the relative compaction of the backfill material.

The top eight inches of the backfill was paved with Class 2 Aggregate Base, conforming to CalTrans Standard Specifications. Aggregate base was placed in a single lift at optimum moisture content (± 1.5 percent) and compacted by 10 complete passes of a 10-ton smooth roller. The subgrade was primed with an SC liquid asphalt applied at a rate of 0.3 gal/sq yd. It was surfaced with a 2-inch mimimum of asphalt and concrete, compacted, and fog sealed.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- Analytical results from soil samples collected from the sides and bottom of the excavation indicate that soil containing TPH concentrations greater than 1,000 ppm (mg/kg) has been effectively removed from the site.

- The Emeryville bay front area is widely known to have been filled with materials of questionable origin, and contamination from hydrocarbons, heavy metals and pesticides are known to

APPENDIX F

FIELD INSPECTION NOTES

PROJECT NAME:

PROJECT NUMBER: NC049

CLIENT: Benefit Capital Corporation (BCC)
1330 Broadway, Suite 500
Oakland, California 94612

PROJECT LOCATION: 1650 65th Street
Emeryville, California

NATURE OF THE JOB: Monitoring remedial action work associated with fuel hydrocarbon leakage at the southeast corner of the 1650 65th Street property, Emeryville, California

February 24, 1988

Riedel Environmental Services (RES) used backhoe for excavation. Excavation started at 8:35 a.m. Photovac readings were taken periodically near the excavation, at backhoe operator's level, downwind/upwind from the excavation. Colorimetric tubes were used to determine the concentration of Benzene in the air. These readings were taken to determine if respiratory protection was required at the site. Excavation was carried out to the depth of 12.5 feet.

Four truck loads of excavated soil were transported from the site to Casmalia Ranch using the special kind of lined and covered trucks. The manifest numbers used for the trucks are 87611838, 87611839, 87611840, and 87611841. The rest of the excavated soil was stockpiled on 10 ml thick plastic liners. The boundaries of the plastic liners were raised 3 to 4 inches to avoid runoff. These stockpiles were covered with plastic liners at the end of the day.

Groundwater level was found to be 12.5 feet from the surface. At the end of the excavation the contractor (RES) was asked to clean the hole. Five soil samples were taken at the end of the day. All the samples were collected using sampling protocol described in the proposal for the same job. Barricades were placed around the site marking it as a hazardous site.

March 9, 1988

Prior to the excavation, the ground surface and adjacent building walls were checked for any cracks or stress development. No cracks were observed in the wall or the ground surface adjacent to the hole. The excavation walls were standing erect without any shoring. Adjacent wall and ground surface was monitored periodically throughout the day but no cracks were observed in either the ground surface or the wall. The

excavation started at 8:20 a.m. Strong gasoline odor was smelled at the top of the excavation. Periodic photovac and colorimetric tube readings were taken throughout the day.

No water was observed in the excavation at the beginning of the day. Water started pouring in the excavation pit at the depth of 13.5 feet.

The contractor had brought 20 bags of Solid-A-Sorb (sorbent material) to take care of runoff from the excavated soil. The excavated soil was stockpiled on the plastic membrane spread adjacent to the excavation. The boundaries of this liner were raised to check runoff.

Gasoline odor continued to be strong the whole day. The soil at the bottom of the pit was found to be dark grey to black sandy silt to medium sand. A thick oil sheen was observed on the top of the water accumulated in the excavation. It could not be confirmed whether it was gasoline sheen or waste oil sheen as the sheen was light greenish brown in color.

Three truckloads of excavated soil were transported to the Casmalia Ranch site using special bottom-lined and top-covered trucks, each having a capacity of 55 cubic yards or 25 tonnes. The manifest numbers used for the trucks are 87338167, 87338168, 87611900. All the trucks were weighed and extra soil was removed before they were transported to Casmalia Ranch.

The depth of excavation was periodically checked. The contractor was asked to stop the excavation at the depth of 16.5 feet all over the site. The hole was cleaned at the end of the day. Backhoe was used to scoop out the soil from the bottom of the hole.

Soil samples were taken in brass liners following all the sampling protocols as described in the proposal.

All the excavated soil was transported from the site and the site area was properly cleaned. Barricades were put again around the excavation marking it a danger zone. The dimensions of the pit were measured at the end of the day. The plan showing the excavation boundaries and the sampling locations have been included.

March 16, 1988

No cracks were observed in the ground surface and building walls adjacent to the pit. The walls of the pit were standing erect, without any signs of movement.

About 2-1/2 to 3 feet of water was observed at the bottom of the pit. The water was dirty, had thick sludge, oily sheen and some wooden and plastic pieces floating on the surface.

The contractor removed two panels of fence toward the southeast corner of the enclosed area to bring in gravel. At 8:16 a.m. two surveyors arrived at the site. They took readings and left the site at

9:19 a.m. Meanwhile the water from the excavation was being pumped into a special truck for transporting dirty water. The pumping activity continued until 11:00 a.m., stopping intermittently to clean the blockage in the suction pipe. 3,800 gallons of water was pumped from the site and transported under manifest number 87338168. At the end of pumping there was still a 3- to 4-inch layer of water left at the bottom of the hole. This layer was relatively clean as all the sludge floating on the top had been removed through pumping.

The contractor started backfilling the hole at 11:00 a.m. gravel ranging in size from 1/2 to 3/4 inches was dumped in the hole up to approximately 13-1/2 feet from the ground surface. This is about the depth of groundwater table measured at the site. Gravel was dumped in one single layer without any kind of compaction. The top surface of this layer was smoothened using a vibratory plate compactor (Hopac) attached to the backhoe arm. Above this level Caltrans-specified Type E material was used as backfill material. No grain size analysis was made to determine if the material conformed to the standards. This material was dumped in the excavation in approximately 10- to 12-inch layers. The thickness of these layers could not be confirmed as the material was dumped in one place and then smoothed out all over the excavation pit. Moreover, the contractor had no arrangement of taking out the gravel from the excavaton pit. Each layer was compacted using vibratory compactor until the top of the layers showed a thin film of water. Relative compaction and the water content of the backfill was not checked. The hole was filled up to a depth of 8 feet from the ground surface. A temporary fence was installed where the contractor had removed the existing permanent fence. The area was barricaded.

March 17, 1988

Excavation backfilling started at 8:00 a.m. The material used was Caltrans standard Type E. The material was compacted in the layers about 10 to 12 inches thick. Compaction was achieved using a vibratory hammer. No tests were done to determine the relative compaction and water content of the backfill material. However, it was confirmed that the backfill material was compacted until the water present in the voids showed on the surface. Excavation was backfilled to the surface at 12:30 p.m. The site area was cleaned off after completion of the work. Barricades were removed, and the removed fence was put back in place.

April 1, 1988

Asphalt pavement was restored by contractor according to specifications.

exist in fill materials on an adjacent property (Reference 2). Observed levels of hydrocarbon contamination in materials below the groundwater table elevation in the tank excavation pit may therefore have originated from within the fill materials and are probably not related to leakage from the underground tank.

- The highest concentration of dissolved TPH observed in groundwater monitoring well MW-1 was 33 mg/l.

Recommendations

- The Regional Water Quality Control Board and Alameda County Department of Environmental Health should be contacted to seek a waiver of the requirement for a downgradient monitoring well. This recommendation is based on the fact that hydrocarbon contamination is known to exist on adjacent parcels, and that groundwater degradation has already occurred throughout the area and could not be safely attributed to leakage from the UST on this site.

- Should a waiver of the requirement be denied, a downgradient monitoring well should be installed at the site and sampled quarterly for a period of one year.

Very truly yours,

Ajay Singh
Project Engineer

Dan B. McCullar, R.G.
Project Manager

AJS/DBM/am/377.10

cc: R. S. Makdisi

REFERENCES

1. Engineering-Science, Inc., Site Health and Safety Plan, February 1988.

2. Earth Metrics, Inc., Draft Work Plan for Soils Contamination Characterization of Bay Center Site, 19 May 1986.

3. Engineering-Science, Inc., Underground Fuel Storage Tank Site Investigation, 21 August 1987.

4. Engineering-Science, Inc., Soil Remediation Plan, 18 December 1987.

5. Alameda County Department of Environmental Health, Division of Hazardous Materials, personal communication with Liz Rose, 25 February 1988.

6. Regional Water Quality Control Board, Bay Area Region, personal communication with Greg Zentner, 27 February 1988.

Specifications for the

Removal and Disposal of Contaminated Soil
Southeast of the Warehouse Building
at 1650 65th Street
Emeryville, California

Benefit Capital Corporation (Owner)

PART 1. GENERAL

1.01 Description. Provide all equipment, labor, materials, tools and incidentals to excavate and dispose of contaminated soil. This soil, contaminated with petroleum hydrocarbons and lead, shall be disposed of in a Class I hazardous waste landfill. Soil contamination resulted from leakage of gasoline, diesel, and motor oil from a former underground storage tank and associated piping.

1.02 Insurance and Terms and Conditions. The contractor shall hold insurance coverage in accordance with this article and shall provide thirty days' notice to Wareham Development, the property owner, in the event of a material change in coverage or cancellation.

A. The contractor shall carry workers' compensation insurance in compliance with the applicable state and federal laws.
B. The contractor shall carry comprehensive automobile liability insurance with property damage provisions.
C. The contractor shall carry comprehensive general liability insurance with a $1,000,000 limit.
D. The contractor shall comply with the terms and conditions set forth in Attachment A.

1.03 Contamination Characterization. Known petroleum hydrocarbon concentrations range from 170 to 6,600 mg/kg. These analytical results will be augmented by additional sampling at the base and sidewalls of the excavation during and following completion of soil excavation. All sampling and analytical work will be performed by the Owner's consultant, Engineering-Science, Inc. To allow time for the laboratory analyses, the excavation Contractor will be required to cease operations for up to 48 hours. The Contractor shall include two such stoppages in the Work and these shall be included in the Bid Schedule prices. As long as contamination persists, the Contractor shall continue to excavate as directed by the Owner's consultant and wait the required 48-hour period for each associated sampling and analysis event.

PART 2. PRODUCTS (not used)

PART 3. EXECUTION

3.01 Area of Soil to Be Excavated. The area requiring excavation is located in the paved area southeast of the warehouse building as shown in Figures 1 and 2. The excavation will cover approximately 120 square feet and extend to a depth of 12 feet. Excavation will remove about 60 cubic yards of soil. Figure 2 shows the excavation area. Figure 3 is a schematic cross-section of the excavation area.

3.02 Soil Excavation. All labor and equipment necessary to complete the removal of the soil shall be consistent with local, state and federal health and safety codes. Permits required shall be the responsibility of the contractor. The excavated contaminated soil shall be stored in the yard area. The material shall be placed on a plastic liner overlaying the existing concrete slab. The liner shall be minimum 10 mils thick and be made of CPE, HDPE, or EPDM. The edges shall be elevated at least four inches to prevent any precipitation run-on or run-off. Increased elevation of the edges will be required if soils are stockpiled on the sloped area. At the end of each day the stockpiled soil shall be completely covered with plastic. The edges shall be weighted to prevent the plastic from shifting or blowing away. The contractor shall be responsible for the cleanup of the work area each day.

3.03 Excavation Considerations. The contractor shall use the following information during soil excavation:

A. Brick, glass, wood, and iron debris, found during monitoring well installation, exist in the excavation area, possibly originating from the early 1940's to the mid 1950's, when the site was used as a municipal dump.

B. The excavation will extend into uncompacted soil and sand resulting from the underground storage tank removal and excavation backfill performed on 2 July 1987.

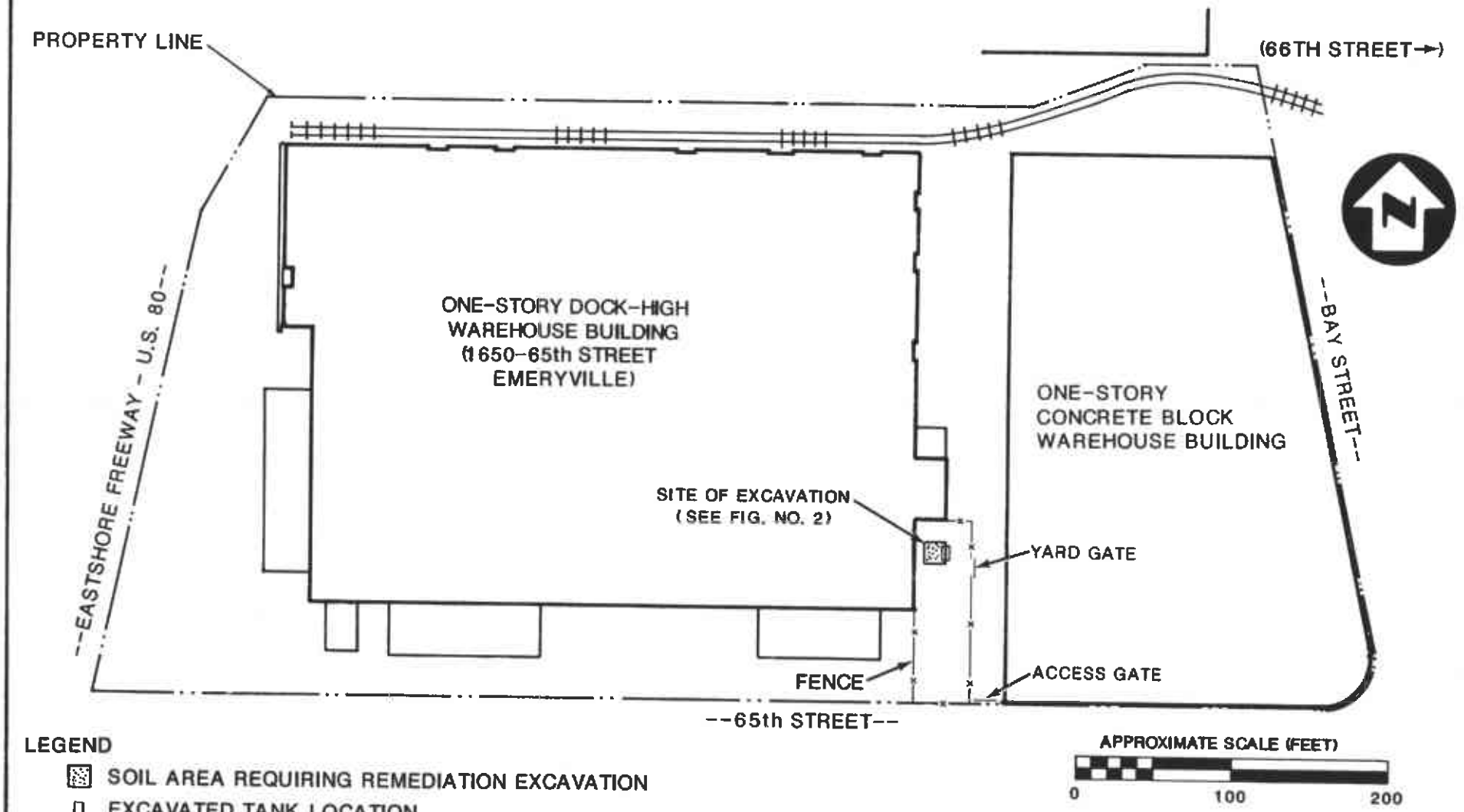
C. The excavation may extend to groundwater, but not below. The water table is roughly 12.3 feet below ground surface.

D. Two 8-inch diameter cement plugs (grouted monitoring well and grouted borehole), extending to depths of 17' and 30', exist in the excavation area. Plugs may be handled by any method which facilitates soil excavation. If cement plugs are knocked out as excavation progresses, upon completion of soil removal the contractor shall dig out three additional feet of the cement plugs plus additional soil to create a pit roughly 3.0 feet in diameter. Neat cement shall be used to fill the pit to excavation grade.

E. Excavation shall not occur within 3 feet of the warehouse building except under the guidance of the Owner.

F. The sides of the excavation shall be as nearly vertical as the soil will stand. The actual excavation shall be vertical, with natural sloughing to follow. The building shall be underpinned if so directed by the Owner. Required underpinning will be paid for as an

SITE PLAN OF 1650 65TH STREET PROPERTY



LEGEND

- ▨ SOIL AREA REQUIRING REMEDIATION EXCAVATION
- ▯ EXCAVATED TANK LOCATION

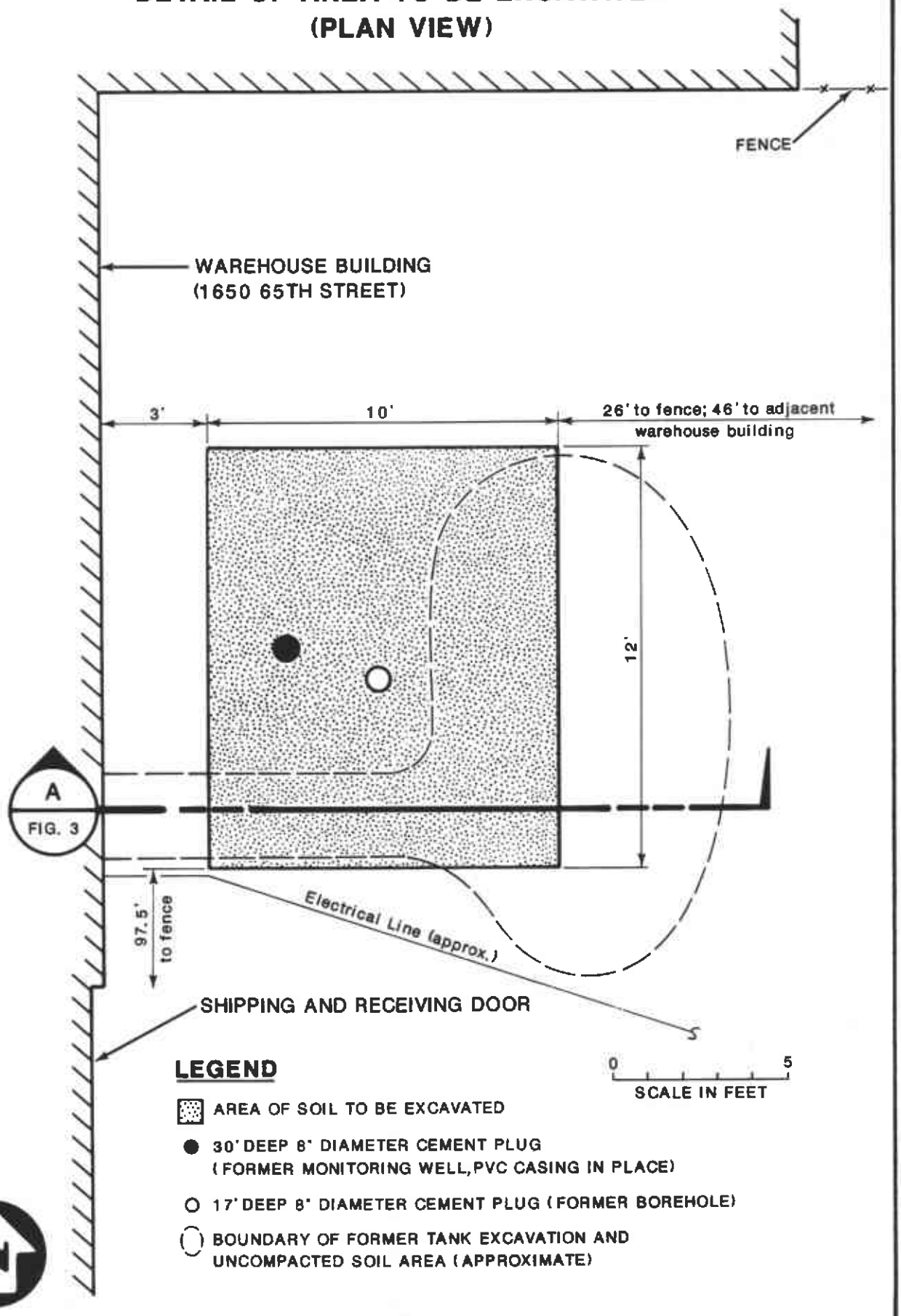
BASE: PETER KALDVEER AND ASSOCIATES, INC. 1987, FROM "TOPO MAP", BY TRONOFF ASSOCIATES, DATED FEBRUARY 3, 1983

ENGINEERING-SCIENCE

FIGURE 1

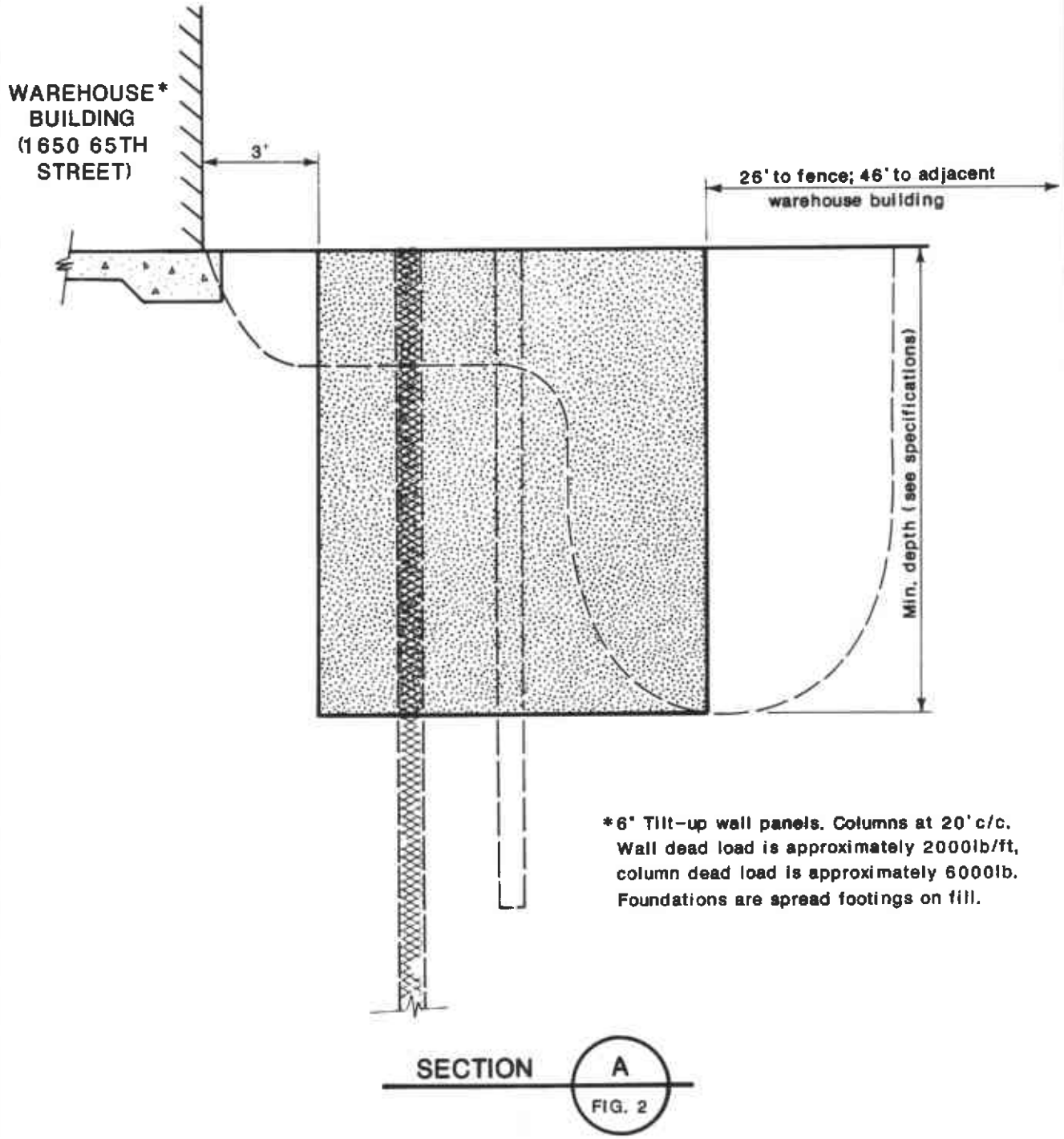
FIGURE 2

DETAIL OF AREA TO BE EXCAVATED
(PLAN VIEW)



ENGINEERING-SCIENCE

DETAIL OF AREA TO BE EXCAVATED (CROSS SECTION)



*6" Tilt-up wall panels. Columns at 20' c/c. Wall dead load is approximately 2000lb/ft, column dead load is approximately 6000lb. Foundations are spread footings on fill.

SECTION A
FIG. 2

LEGEND

- AREA OF SOIL TO BE EXCAVATED
- 30' DEEP 8" DIAMETER CEMENT PLUG
- 17' DEEP 8" DIAMETER CEMENTED PLUG
- BOUNDARY OF FORMER TANK EXCAVATION AND UNCOMPACTED SOIL AREA (APPROXIMATE)

0 5
SCALE IN FEET

Extra, with the payment being cost, plus a negotiated overhead, plus 15 percent profit.

3.04 Temporary Fencing. Should the access gate or the yard gate be insufficient to permit access of equipment to the excavation site, fence sections may be removed to permit access. If fencing is removed, temporary fencing shall be erected at the end of each day to protect the site. Following completion of the work itemized herein, all fencing must be restored in kind.

3.05 Soil Removal and Disposal. The excavated soil that is stored in the yard area shall be removed after excavation is declared complete by the Owner. All records, including the hazardous waste manifests from the hauling trucks and the disposal site, shall be provided to the Owner.

3.06 Backfill. Backfill material shall be Type E as defined in Section 19-3.06 of the Caltrans Standard Specifications, July 1984 edition. Compact to 90 percent relative compaction. Compaction shall be measured as a check at the discretion of the Owner using California Test No. 216.

3.07 Paving. 8 inches of Class 2 Aggregate Base, conforming to Cal-Trans Standard Specifications, shall be placed in a single lift at optimum moisture ±1.5 percent, and compacted by 10 complete passes of a 10 ton smooth roller. The subgrade shall be primed with an SC liquid asphalt applied at the rate of 0.3 gal/sq. yd., surfaced with 2" minimum of asphaltic concrete, compacted and fog sealed.

PART 4. MEASUREMENT AND PAYMENT

4.01 Soil Excavation. The bid shall be on a base-bid lump sum basis to perform the work required to excavate and stockpile 60 cubic yards of contaminated soil on the plastic liner provided by the excavation Contractor and to backfill the excavation according to paragraph 3.06 above. Add or deduct unit costs are to be provided for as follows:

- Unit price per additional or fewer cubic yards of soil to be excavated, stockpiled, and backfilled.

4.02 Soil Removal and Disposal. The bid shall be on a base-bid lump sum basis to perform the work required to load the 60 cubic yards of soil into trucks, including the plastic liner, and remove and dispose of the material as specified hereinabove. Add or deduct unit costs are to be provided for as follows:

- Unit price per additional or fewer cubic yards of soil to be removed and disposed of.

4.03 Measurement. The Owner's consultant will survey the excavation before and after excavation to determine soil yardage excavated. This yardage shall be the basis for payment as regards any required base-bid adjustments.

4.04 Health and Safety Plan. A Health and Safety Plan conforming to requirements of the Occupational Safety and Health Administration (OSHA) shall be prepared by the contractor, and three copies shall be submitted prior to the start of work on site.

END OF SPECIFICATIONS

ES
ENGINEERING-SCIENCE, INC.

600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970

3 March 1988
Ref: NC049.08

Mr. Mike McRae
Riedel Environmental Services
4138 Lakeside Drive
Richmond, CA 94806

Dear Mike:

Outlined in this letter are the changes we discussed for the excavation work at 1650 65th Street in Emeryville.

The following items shall be ADDED to the excavation specification.

To PART 3. EXECUTION:

3.01 Area of Soil to Be Excavated. The excavation will extend from the current depth of 12.5 feet to a depth of 16.5 feet. Figure 3, a schematic cross-section of the excavation, has been amended to reflect this change and is included as Attachment A.

3.03 Excavation Considerations.

C. Delete the first sentence. The excavation will extend below the water table which is visible in the excavation at roughly 12.5 feet.

3.08 Water Removal and Disposal. Prior to backfilling the excavation pit, the water remaining in the excavation shall be pumped into a tank truck, removed, and disposed of. All records, including any hazardous waste manifests from the tank trucks and the disposal site, shall be provided to the Owner.

3.06 Backfill.

Backfill Below the Water Table. Material to be used to backfill below a depth of 10 feet shall be "1-1/2 inches x 3/4 inches" coarse concrete aggregate, graded as follows:

Sieve Size	Percent Passing By Weight
2"	100
1-1/2"	88-100
1"	18+
3/4	0-17
3/8	0-7

The material shall be placed uncompacted, by dumping it in the hole. Above the depth of 10 feet, the backfill shall be the material originally specified, placed as originally specified.

35 cubic yards of the 1-1/2" x 3/4" backfill material shall be on-site at the time the excavation below the water table starts so as to be available for continuous and immediate backfill operation in the event the Owner decides to close the lower portion of the pit for stability purposes.

To PART 4. MEASUREMENT AND PAYMENT:

4.03 Measurement. In the event the 35 cubic yards of backfill material is placed in the excavation for stability purposes, this yardage will be used in lieu of surveying to determine soil yardage excavated from that portion of the hole.

We would like to begin this work no later than Wednesday, 9 March 1988. To expedite this process, Engineering-Science requests from Riedel Environmental Services a written statement of additional costs associated with the revised schedule and scope of work.

Sincerely,

W. R. Kirkpatrick, P. E.
Associate

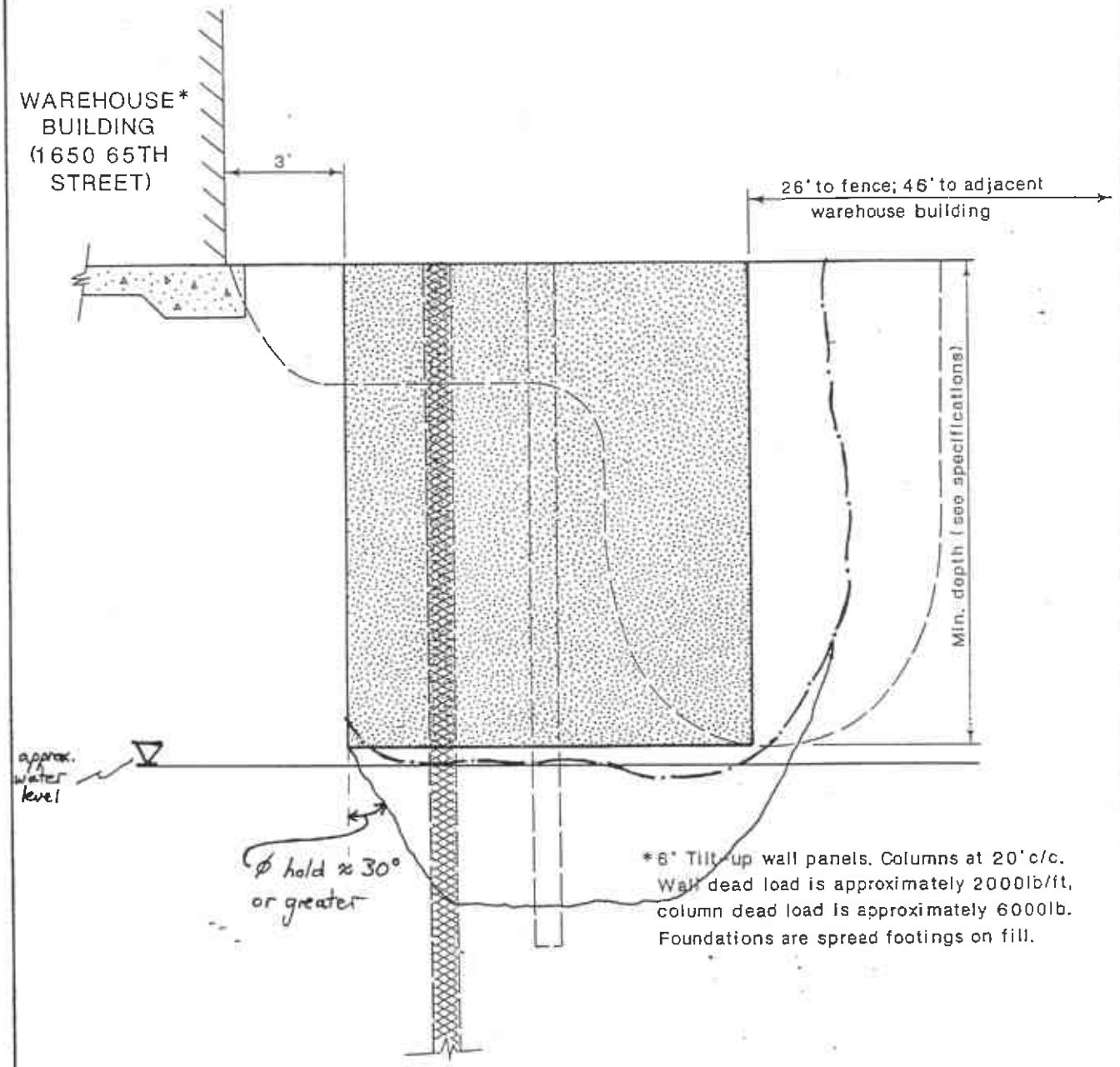
WRK/am/370.51

cc: Katherine A. Chesick
Richard S. Makdisi

Attachment A

FIGURE 3

DETAIL OF AREA TO BE EXCAVATED (CROSS SECTION)



SECTION A
FIG. 2

LEGEND

- AREA OF SOIL TO BE EXCAVATED
- 30' DEEP 8" DIAMETER CEMENT PLUG
- 17' DEEP 8" DIAMETER CEMENTED PLUG
- BOUNDARY OF FORMER TANK EXCAVATION AND UNCOMPACTED SOIL AREA (APPROXIMATE)
- -·-·- Approximate excavation boundary (3/2/88)
- —— Final excavation boundary

0 5
SCALE IN FEET

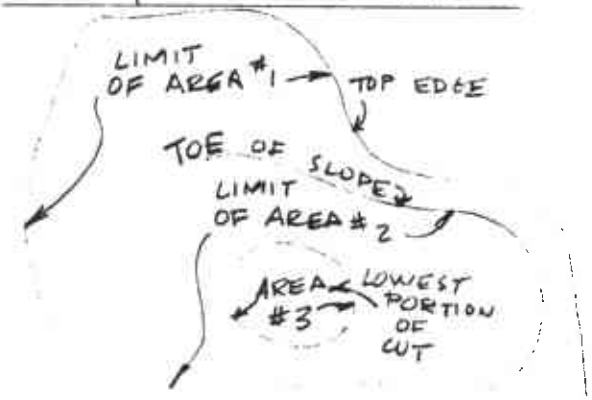
ENGINEERING-SCIENCE

MORAN Engineering
CIVIL ENGINEERS LAND SURVEYORS
463 KENTUCKY AVE • BERKELEY CA 94707 • (415) 527-7714

MARCH 17, 1988
88-1800

CALCULATIONS TO DETERMINE VOLUME OF EXCAVATION REMOVED AT TOXIC SITE, 1650 65th STREET, EMERYVILLE, CA.

sketch of plan view excavation



METHOD: AVERAGE END AREA

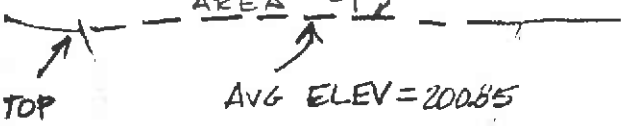
PLANIMETER USED TO DETERMINE AREAS

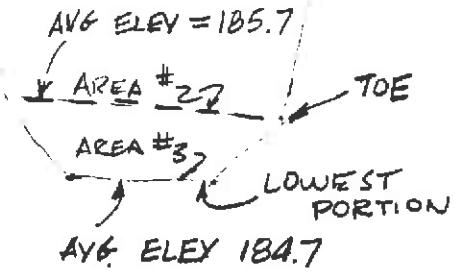
AREA #	AVG ELEV	Δ ELEV	AREA S.F.	AVG AREA	VOLUME C.F.
1	200.85		201		
		15.15	x	159.5	= 2416.4
2	185.7		118		
		1.0	x	70.5	= 70.5
3	184.7		23		

TOTAL 2486.9 CF
÷ 27 CF/CY

TOTAL VOLUME 92 CUBIC YARDS

sketch of cross section





Use 92.1 cy as pay volume
W.R.M.

CLIENT BENEFIT CAPITAL CORPORATION

LOCATION 1650 65th STREET EMERYVILLE, CALIFORNIA

DATE 27 JULY 1987

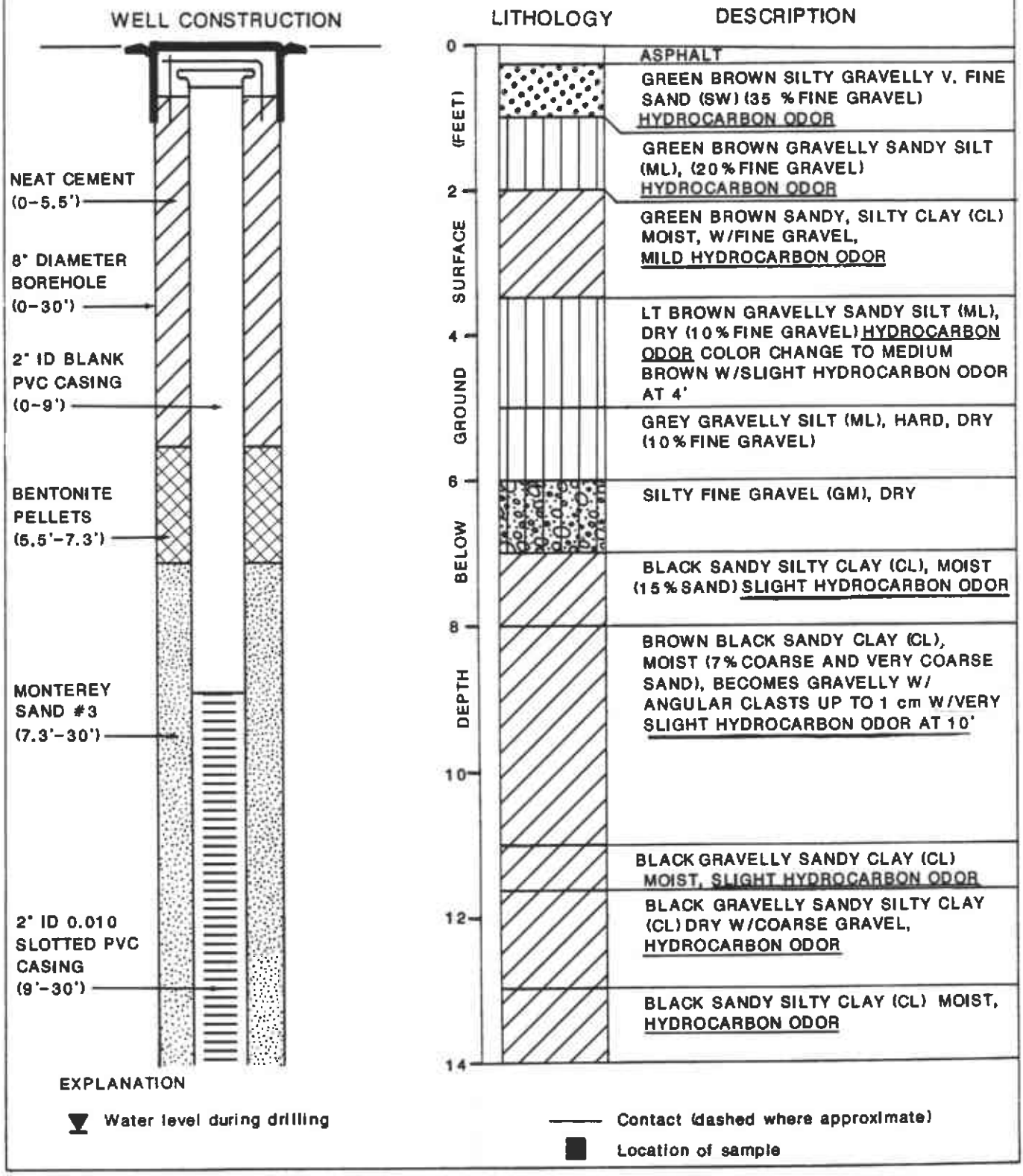
GEOLOGIST K. CHESICK

TEST HOLE NUMBER MW-1

DRILLER AQUA SCIENCE ENGINEERS, INC.

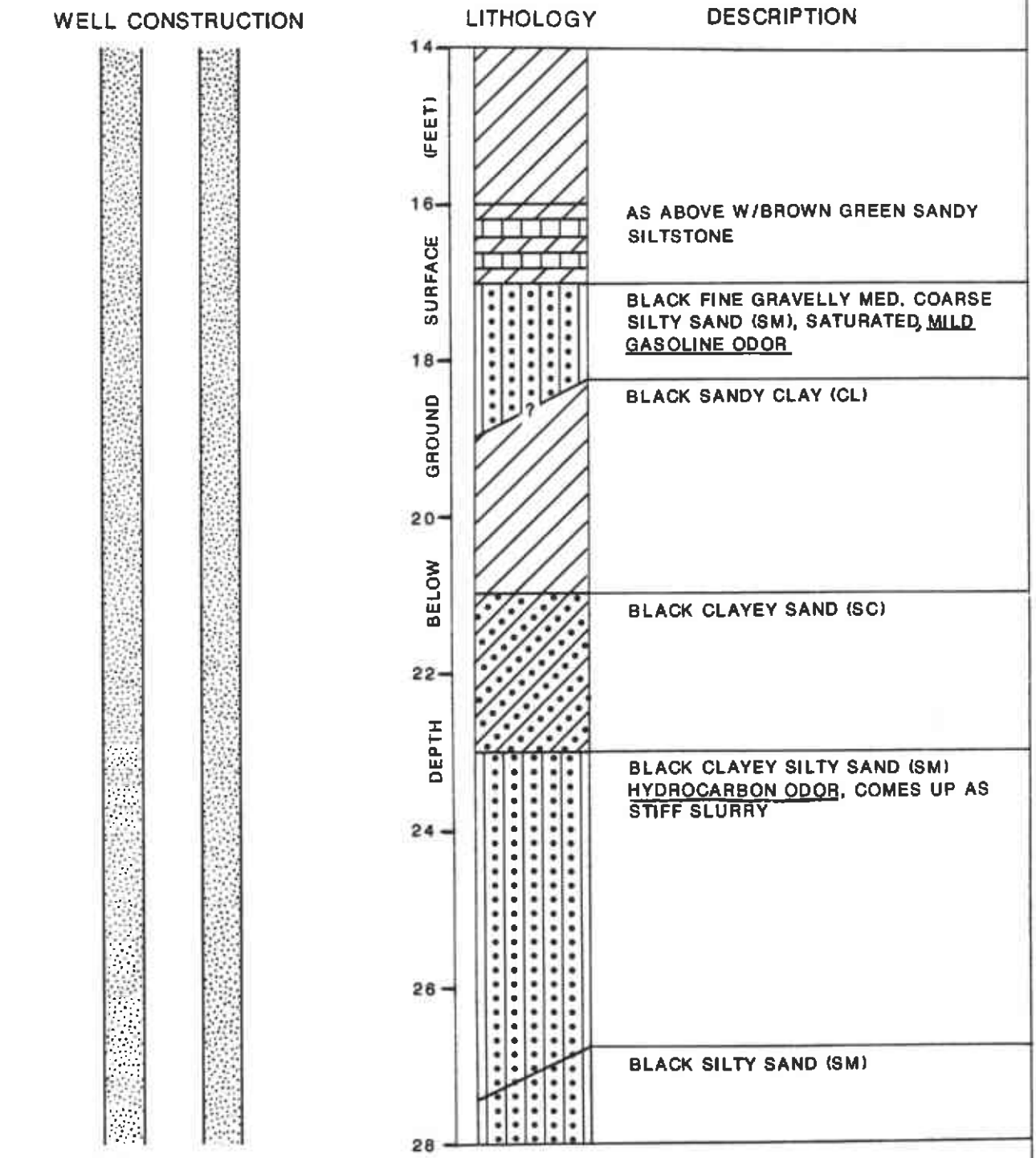
DRILLING METHOD HOLLOW STEM AUGER

HOLE DIAMETER 8-INCH



CLIENT BENEFIT CAPITAL CORPORATION
LOCATION 1650 65th STREET EMERYVILLE, CALIFORNIA
DATE 27 JULY 1987
GEOLOGIST K. CHESICK

TEST HOLE NUMBER MW-1
DRILLER AQUA SCIENCE ENGINEERS INC.
DRILLING METHOD HOLLOW STEM AUGER
HOLE DIAMETER 8-INCH



EXPLANATION

▼ Water level during drilling

——— Contact (dashed where approximate)

■ Location of sample

CLIENT BENEFIT CAPITAL CORPORATION

LOCATION 1650 65th STREET EMERYVILLE, CALIFORNIA

DATE 27 JULY 1987

GEOLOGIST K. CHESICK

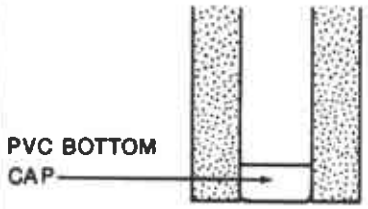
TEST HOLE NUMBER MW-1

DRILLER AQUA SCIENCE ENGINEERS INC.

DRILLING METHOD HOLLOW STEM AUGER

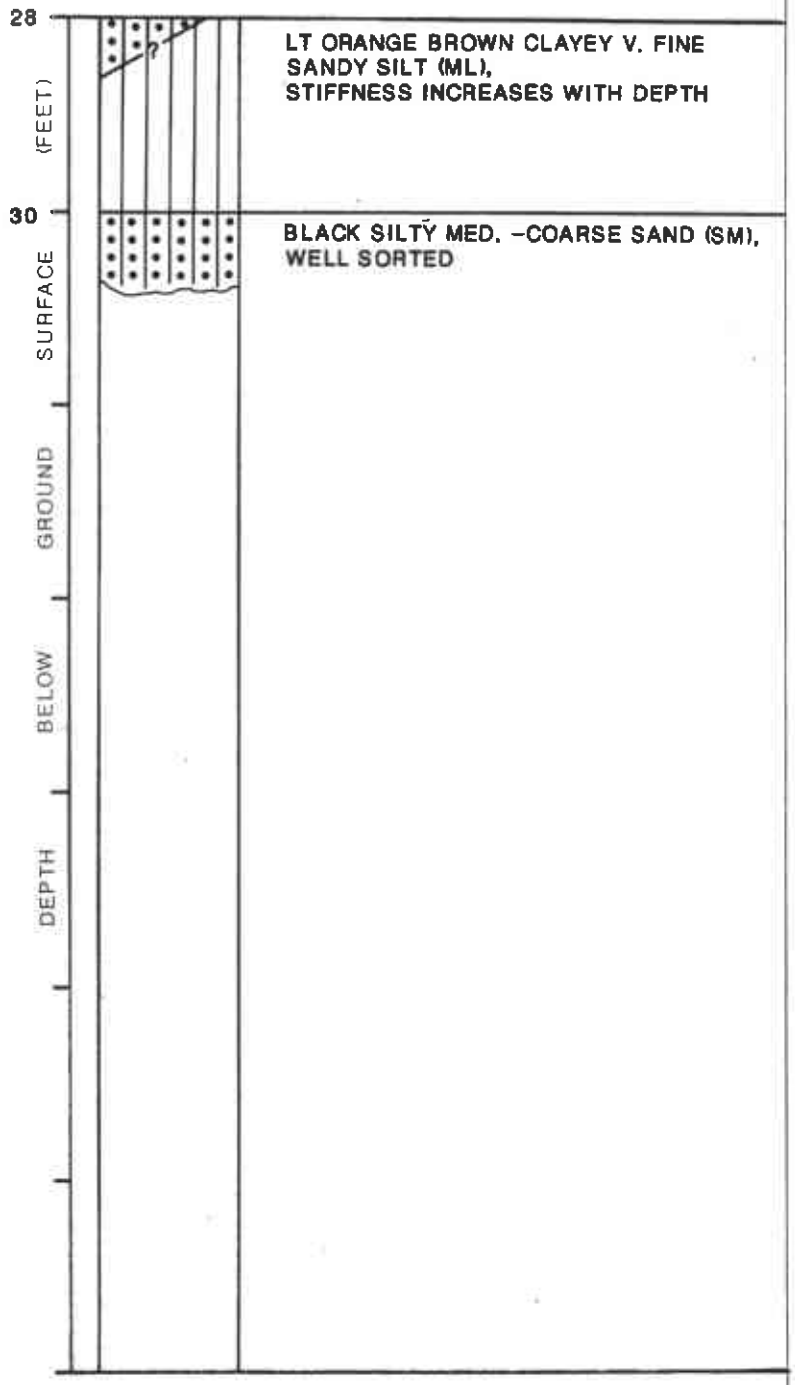
HOLE DIAMETER 8-INCH

WELL CONSTRUCTION



LITHOLOGY

DESCRIPTION



EXPLANATION

▼ Water level during drilling

——— Contact (dashed where approximate)

■ Location of sample

CLIENT BENEFIT CAPITAL CORPORATION

LOCATION 1650 65th STREET EMERYVILLE, CALIFORNIA

DATE 27 JULY 1987

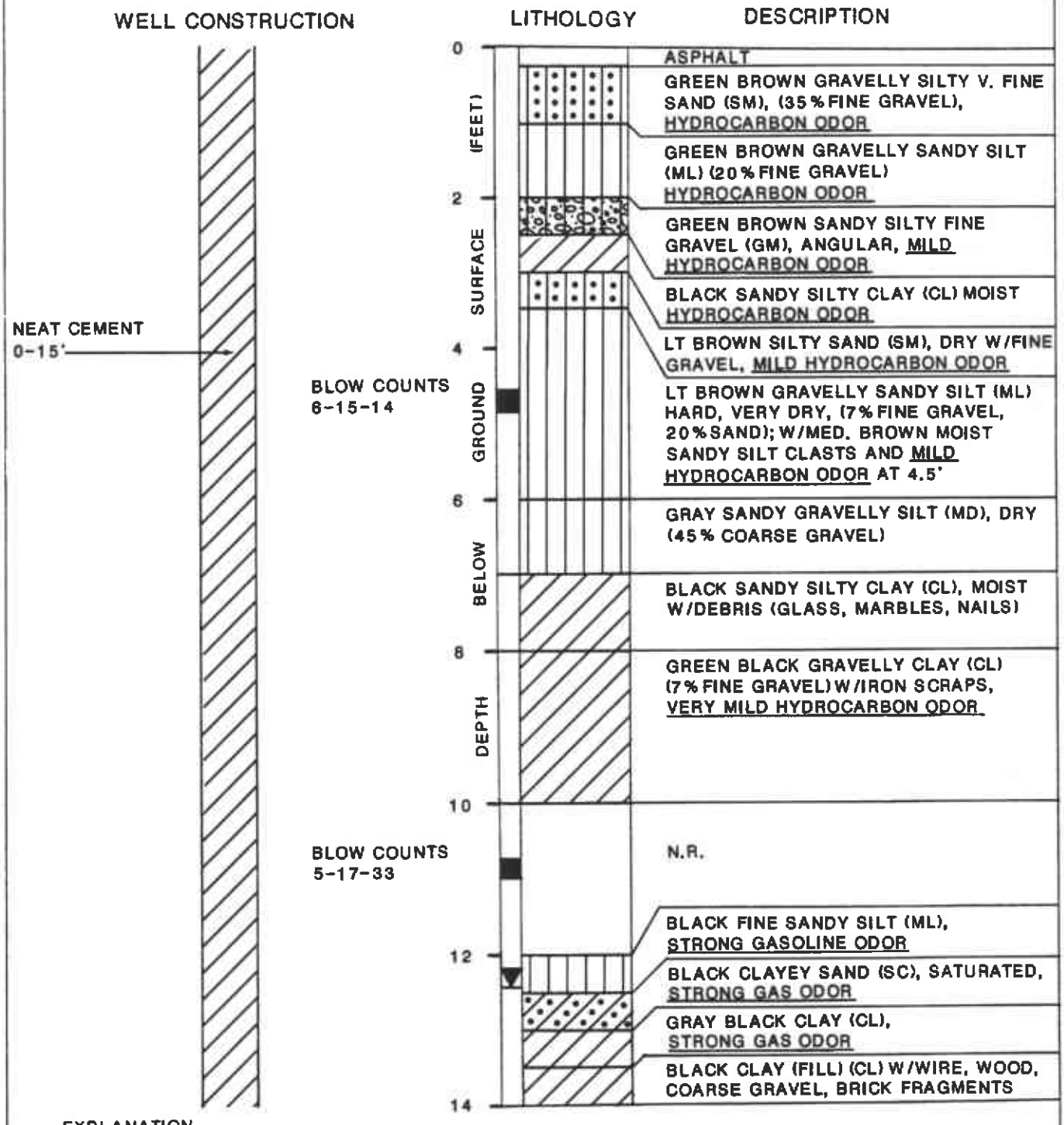
GEOLOGIST K. CHESICK

TEST HOLE NUMBER ABANDONED BOREHOLE

DRILLER AQUA SCIENCE ENGINEERS, INC.

DRILLING METHOD HOLLOW STEM AUGER

HOLE DIAMETER 8-INCH



EXPLANATION

▼ Water level during drilling

——— Contact (dashed where approximate)

■ Location of sample

CLIENT BENEFIT CAPITAL CORPORATION

LOCATION 1650 65th STREET EMERYVILLE, CALIFORNIA

DATE 27 JULY 1987

GEOLOGIST K. CHESICK

TEST HOLE NUMBER ABANDONED BOREHOLE

DRILLER AQUA SCIENCE ENGINEERS INC.

DRILLING METHOD HOLLOW STEM AUGER

HOLE DIAMETER 8-INCH

WELL CONSTRUCTION	DEPTH BELOW GROUND SURFACE (FEET)	LITHOLOGY	DESCRIPTION
	14		N.R.
BOTTOM OF BOREHOLE	16	BOTTOM OF BOREHOLE	BLACK SILTY SAND (SM), SATURATED, WELL SORTED, MED. GRAINED GASOLINE ODOR BOREHOLE ABANDONED DUE TO WIRE WRAPPED AROUND PLUG IN DRILL BIT

EXPLANATION

▼ Water level during drilling

——— Contact (dashed where approximate)

■ Location of sample

[redacted] ENGINEERING - SCIENCE, INC. [redacted]

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

CLIENT:	PROJECT MANAGER:	PROJ. NO.:
ENGINEERING-SCIENCE, INC. BERKELEY	K. Chesick	NC049.08

PROJECT NAME / LOCATION:
Benefit Capital Corporation
1650 65th Street, Emeryville

SAMPLER(S): (SIGNATURE)
K. Chesick K. Chesick

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSES REQUIRED: Petrol. Hydrocarb. 8015 Standards (Gas + Diesel)	ANALYSES REQUIRED: & BTX	ANALYSES REQUIRED: Lead	ANALYSES REQUIRED:	ANALYSES REQUIRED:	PRESERVED	TO BE COMPOSITED BY LAB	TURNAROUND TIME	REMARKS
BW-2	3/9/88	14:55	Soil	17' depth, excavation	1	✓	✓	✓					24 hr	Samples are very
BE-2	3/9/88	15:00	Soil	17' depth, excavation	1	✓	✓	✓					24 hr	watery (collected
														below ground water)

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
K.A. Chesick	3/9/88 16:54	Bill Friedman	per C. Creighton	3/9/88 2022	Relinquish
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
L4b K Temple 3/9/88	3 9 88 2125	Bill Friedman	3/9/88	Please analyze samples with both Gasoline and Diesel standards	

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ANATEC LABORATORIES INC.

435 Tesconi Circle
Santa Rosa, CA 95401
707-526-7200
Fax 707-526-9623

Kathy Chesick
Engineering-Science, Inc.
600 Bancroft Way
Berkeley, CA 94710

March 16, 1988
ANATEC Log No: **2535** (1-2)
Series No: 228/047
Client Ref: Proj NC049.08

Subject: ASAP Priority Analysis of Two Soil Samples Received March 9, 1988.

TRANSMITTAL OF RESULTS

Parameter	Descriptor, Lab No. & Results (mg/Kg)[a] BW-2 17' 3/9/88 1455 (6385)	BE-2 17' 3/9/88 1500 (6386)
VPH[b], as gasoline	390	<10
EPH[c], as diesel	23	<10
as motor oil	13	<10
Benzene	3.0	<10
Toluene	56	<10
Xylenes	51	<10
Lead	<20	<20

[a]mg/Kg--Data are expressed as milligrams analyte per kilogram sample, as-received basis.
[b]VPH--Volatile petroleum hydrocarbons.
[c]EPH--Extractable petroleum hydrocarbons.

Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Kim Hansard
Project Chemist

Approved by:

Greg Long
Project Manager

/ml
Enc: Sample Custody Document

ENGINEERING – SCIENCE, INC.

CHAIN OF CUSTODY RECORD

2395

PAGE 1 OF 1

CLIENT:	PROJECT MANAGER:	PROJ. NO.:
ENGINEERING-SCIENCE, INC. BERKELEY	K. Chesick	NC049

PROJECT NAME / LOCATION: BCC 1650 65th Street, Emeryville

SAMPLER(S): (SIGNATURE) K. Chesick / E. Storrs / M. Pierce

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSES REQUIRED: Total Petroleum Hydrocarbons (gasoline std.) and BTX	BTX & Lead	PRESERVED	TO BE COMPOSITED BY LAB	TURNAROUND TIME	REMARKS
BE-1	2/24	4:27	Soil	Bottom of excavation, east	1	✓	✓	A	24hr		please composite
BW-1	2/24	4:30	"	" " " , west	1	✓	✓	A	"		
SW-1	2/24	4:38	"	Side of excavation, west	1	✓	✓	B	"		
SNE-1	2/24	4:53	"	" " " northeast corner	1	✓	✓	C	"		please composite
SS-1	2/24	5:00	"	" " " , south	1	✓	✓	C	"		

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Katherine Chesick	2/24/88 1750			2/24 1800	

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS
Craig Storrs	2/24/88 1922	K Temple	2/24/88 1920	

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ANATEC
LABORATORIES
INC.

435 Tesconi Circle
Santa Rosa, CA 95401
707-526-7200
Fax 707-526-9623

Katherine Chesick
Engineering-Science, Inc.
600 Bancroft Way
Berkeley, CA 94710

March 8, 1988
ANATEC Log No: **2393** (1-3)
Series No: 228/043
Client Ref: Proj NC049

Subject: ASAP Priority Analysis of Three Soil Samples Identified as "BCC 1650 65th Street, Emeryville" Received on February 24, 1988.

Dear Ms. Chesick:

Attached as Table 1 are sample descriptor abbreviations and Table 2 presents summarized analytical results.

Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Jules Skamarack
Project Chemist

Approved by:

Greg Long
Project Manager

/ml
Enc: Sample Custody Document

TABLE 1. SAMPLE DESCRIPTOR ABBREVIATIONS

Lab No.	Descriptor	Abbreviation
5693	BE-1 Bottom of Excav E 2/24/88 1627	Comp 1
	BW-1 Bottom of Excav W 2/24/88 1630	" "
5690	SW-1 Side of Excav W 2/24/88 1638	--
5694	SNE-1 Side of Excav NE Corner 2/24/88 1653	Comp 2
	SS-1 Side of Excav S 2/24/88 1700	" "

TABLE 2. SUMMARIZED ANALYTICAL RESULTS

	Descriptor, Lab No. & Results (mg/Kg)[a]		
Paramater	Comp 1 (5693)	SW-1 Side of Excav W 2/24 1638 (5690)	Comp 2 (5694)
VPH[b], as gasoline	4,800	6.5	520
Benzene	58	0.12	8
Toluene	200	0.11	5.6
Xylenes	350	0.25	78
Lead	17	NR[c]	NR

[a]mg/Kg--Data are expressed as milligrams analyte per kilogram sample, as-received basis.
[b]VPH--Volatile petroleum hydrocarbons.
[c]NR--Analysis not requested.

ENGINEERING - SCIENCE, INC.
CHAIN OF CUSTODY RECORD

CLIENT:	PROJECT MANAGER:	PROJ. NO.:
ENGINEERING-SCIENCE, INC. BERKELEY	K. Chesick	NC049.02

PROJECT NAME / LOCATION: B.C.C. 1650 65th St.

SAMPLER(S): (SIGNATURE) K. Chesick

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSES REQUIRED: GC/FID Total Petroleum Hydrocarbons	ANALYSES REQUIRED	ANALYSES REQUIRED	ANALYSES REQUIRED	PRESERVED	TO BE COMPOSITED BY LAB	REMARKS
MW-5'	7/27/87	9:50	Soil	1650 65th St.	1	✓						Brass tubes } 24 hr turnaround
MW-10'	7/27/87	10:20	Soil	"	1	✓						Brass tubes }

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Katherine Chesick	7/27/87 15:04	Edward Kwong			

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS
				24 hr turnaround

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1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

ANALYTICAL REPORT

LOG NO: E87-07-508

Received: 27 JUL 87
Reported: 30 JUL 87

Ms. Katherine Chesick
Engineering Science
600 Bancroft Way
Berkeley, California 94710

Project: NG049

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
07-508-1	MW-5', 1650 65th Street	27 JUL 87
07-508-2	MW-10', 1650 65th Street	27 JUL 87

PARAMETER	07-508-1	07-508-2
Total Fuel Hydrocarbons, mg/kg	170	6600

D. A. McLean, Laboratory Director

ENGINEERING - SCIENCE, INC.
CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

CLIENT:	PROJECT MANAGER:	PROJ. NO.:
ENGINEERING-SCIENCE, INC. BERKELEY	K. Chesick	N0049.02

PROJECT NAME / LOCATION: 1650 65th St. Emeryville

SAMPLER(S): (SIGNATURE)

SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSES REQUIRED: GC/FID Total Petroleum Hydrocarbons						PRESERVED	TO BE COMPOSITED BY LAB	REMARKS
MW-1	7/28/87	10:54	H2O		2	✓								24 hr turnaround

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Wayne Hall	7-28-87 11:20	E. Kinney			

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS
				24 hr turnaround

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO COORDINATOR FIELD FILES

BROWN AND CALDWELL LABORATORIES
1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

ANALYTICAL REPORT

LOG NO: E87-07-520

Received: 28 JUL 87
Reported: 30 JUL 87

Ms. Kathleen Chesick
Engineering Science
600 Bancroft Way
Berkeley, California 94710

Project: N0049.02

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, WATER SAMPLES	DATE SAMPLED
07-520-1	MW-1	28 JUL 87

PARAMETER	07-520-1
Total Fuel Hydrocarbons, mg/L	33

D. A. McLean, Laboratory Director

ENGINEERING-SCIENCE, INC.

CHAIN OF CUSTODY RECORD

Proj. No.: NC 049.02

Project Name: Emeryville Bay Front Partnership

SAMPLERS (Signature): Isin Wang

STA. NO.	DATE	TIME	STATION LOCATION	NO. OF CONTAINERS	Aromatics EPA 8020 (BTX)	Total Petroleum Hydrocarbons	Metal → Lead (Pb)	REMARKS
N-1/2	7/2	1235	N - bed	2	X	X	X	1WK turnaround
S-1	7/2	1235	S - bed	1	X	X	X	
FP-1/2	7/2	1040	F.lip.pe/product line	2	X	X	X	

verbal results to
Richard Makdisi
415-548-7970

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Isin Wang	7/2/87 1610				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	
		Debbie Fisher	7/2/87 16:10		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

TMA
Thermo Analytical Inc.

TMA/Norcal
2030 Wright Avenue
Richmond, CA 94804-0040
(415) 235-2633

July 20, 1987

Engineering Science
600 Bancroft Way
Berkeley, CA 94710

Attention: Mr. Wang

Dear Mr. Wang:

Please find enclosed the analytical report for fuel analysis from our Los Angeles based laboratory, TMA/ARLI. TMA/ARLI is certified by the State of California for hazardous waste testing by Gas Chromatography. TMA/Norcal is certified in many of the other categories including inorganics, GC/MS and pesticides. Completion of our certification for fuel and general GC should be quite soon.

The results for lead analysis and percent moisture are as follows:

Sample Identification		Lead	Moisture
Client	TMA/Norcal	mg/kg dry	%
N-1	2226-40-2	5.0	11.0
S-1	2226-40-4	4.8	1.7
FP-1	2226-40-6	36	7.53

Please contact me if you have any questions regarding this report.

Sincerely,

Mary Janney
Program Manager

MJ/dss

Enclosure

Received: 07/06/87 07/15/87 11:43:33

REPORT TO: TMA/NORCAL
2030 Wright Ave
Richmond, CA 94804

ATTEN: Sample Control

CLIENT: TMA NORCAL SAMPLES: 3
COMPANY: TMA/NORCAL
FACILITY:

WORK ID: Project No. 2226-40
TAKEN: By Unknown
TRANS: By Federal Express
TYPE: Soils
P.O. #: 6463
INVOICE: under separate cover

PREPARED BY: Thermo Analytical, Inc.
160 Taylor Street
Monrovia, CA 91016

ATTEN:
PHONE: 818-357-3247

CERTIFIED BY

CONTACT: JSC

This report is for the sole and exclusive use of the client to whom it is addressed. Samples not destroyed in testing are retained a maximum of thirty (30) days unless otherwise requested.

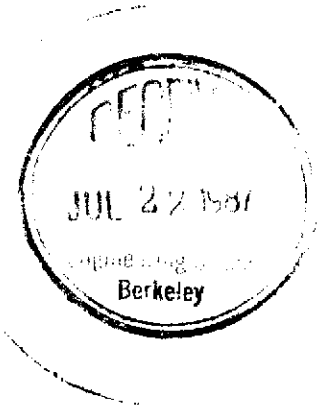
Data Reported by Telecon 7/9/87

SAMPLE IDENTIFICATION

01 N-1
02 S-1
03 FP-1

TEST CODES and NAMES used on this report

8015M Fuels-Total Hydrocarbons
8020 Aromatic Volatile Organics



Received: 07/06/87 Results by Sample

SAMPLE ID N-1 FRACTION 01A TEST CODE 8015M NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category

MODIFIED 8015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET LIMIT
C5 - C12 Hydrocarbons	ND	0.1
C10 - C16 Hydrocarbons	ND	0.1
C9 - C22 Hydrocarbons	ND	0.1
C9 - C14 Hydrocarbons	ND	0.1

ANALYST YY
DATE INJECTED 07/07/87
DILUTION FACTOR 1.00
VERIFIED JSC

NOTE: All results reported in ppm unless otherwise specified
ND = Not detected at the specified limits

Received: 07/06/87 Results by Sample

SAMPLE ID N-1 FRACTION 01A TEST CODE 8020 NAME Aromatic Volatile Organics
Date & Time Collected not specified Category

8020 AROMATIC VOLATILE ORGANICS

COMPOUND	RESULT	DET LIMIT
Benzene	ND	0.03
Chlorobenzene	ND	0.03
1,2-Dichlorobenzene	ND	0.04
1,3-Dichlorobenzene	ND	0.04
1,4-Dichlorobenzene	ND	0.04
Ethylbenzene	ND	0.04
Toluene	ND	0.03
Xylenes (Dimethylbenzenes)	ND	0.04

ANALYST MLH
DATE INJECTD 07/07/87
DILUTION FACTOR 1.00
VERIFIED JSC

NOTE: All results reported in ppm unless otherwise specified
ND = Not detected at the specified limits

SAMPLE ID S-1 FRACTION 02A TEST CODE 8015M NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category

MODIFIED 8015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET LIMIT
C5 - C12 Hydrocarbons	ND	0.1
C10 - C16 Hydrocarbons	ND	0.1
C9 - C22 Hydrocarbons	ND	0.1
C9 - C14 Hydrocarbons	ND	0.1

ANALYST YY
DATE INJECTED 07/07/87
DILUTION FACTOR 1.00
VERIFIED JSC

NOTE: All results reported in ppm unless otherwise specified
ND = Not detected at the specified limits

SAMPLE ID FP-1 FRACTION 03A TEST CODE 8015M NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category

MODIFIED 8015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET LIMIT
C5 - C12 Hydrocarbons	ND	0.1
C10 - C16 Hydrocarbons	ND	0.1
C9 - C22 Hydrocarbons	ND	0.1
C9 - C14 Hydrocarbons	490.	0.1

ANALYST YY
DATE INJECTED 07/07/87
DILUTION FACTOR 1.00
VERIFIED JSC

NOTE: All results reported in ppm unless otherwise specified
ND = Not detected at the specified limits

Received: 07/06/87 Results by Sample

SAMPLE ID FP-1 FRACTION 03A TEST CODE 8020 NAME Aromatic Volatile Organics
Date & Time Collected not specified Category

8020 AROMATIC VOLATILE ORGANICS

COMPOUND	RESULT	DET LIMIT
Benzene	ND	1.0
Chlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.1
1,3-Dichlorobenzene	ND	1.1
1,4-Dichlorobenzene	ND	1.1
Ethylbenzene	ND	1.1
Toluene	0.90	0.90
Xylenes (Dimethylbenzenes)	23.	1.1

ANALYST MLH
DATE INJECTD 07/07/87
DILUTION FACTOR 1.00
VERIFIED JSC

NOTE: All results reported in ppm unless otherwise specified
ND = Not detected at the specified limits

TMA/NORCAL

Three soil samples from project 2226-40 were submitted for analysis on a rush basis. The soils were extracted and analyzed for fuel hydrocarbons by the modified 8015 method, and also for aromatic 8020 compounds. The sample labled "FP-1" was found to contain approximately 490 ppm of a C9 - C14 petroleum hydrocarbon - possibly Stoddard's Solvent. This solvent was used for the quantitation. The sample was also found to contain xylene iomers, which was confirmed by GC/MS. The results are attached.

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC000065517 Manifest Document No.: 44022
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 87611838

3. Generator's Name and Mailing Address: Emeryville Baytront, a CA. Limited Partnership c/o Benefit Capital Corporation 1330 BROADWAY SUITE 560 OAKLAND, CA. 94612

4. Generator's Phone ( ) 415 834-1337

B. State Generator's ID

5. Transporter 1 Company Name: Casmalia Resources
6. US EPA ID Number: CA D 02 07 48 1 2 5

C. State Transporter's ID
D. Transporter's Phone (805) 937-8449

7. Transporter 2 Company Name: JAMES R. CROOKS
8. US EPA ID Number: CAD981404115

E. State Transporter's ID 809297
F. Transporter's Phone 805481 7806

9. Designated Facility Name and Site Address:
Casmalia Resources
NTU Road
Casmalia, CA 93429

10. US EPA ID Number: CA D 02 07 48 1 2 5

G. State Facility's ID CAD020748125
H. Facility's Phone (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATED SOIL (CALIFORNIA REGULATED WASTE ONLY)	02	DT	* 00018		State 223 EPA/Other NON-RCRA
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
*Estimated Cubic YARDS

K. Handling Codes for Wastes Listed Above
a. 03 b. c. d.

15. Special Handling Instructions and Additional Information
wear protective clothing, gloves and goggles - IN CASE OF SPILL CALL RIEDEL ENVIRONMENTAL SERVICES, INC. (415) 222-7810

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Emeryville Baytront, A California Limited Partnership; Wesmaries Inc., dba Benefit Capital Corporation General Partner
Signature: [signature] President
Month Day Year: 10 21 88

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JAMES R. CROOKS
Signature: James R. Crooks
Month Day Year: 10 22 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Casmalia Resources Marc Crosb / Sherry L. Fabbry
Signature: Marc Crosb #102001-48,780lbs
Month Day Year: 10 22 88

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete.

#102001-48,780lbs

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BACK

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER, WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 (COMMENCING WITH SECTION 12700) OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WEIGHED AT: **N.T.U. ROAD, CASMALIA, CA.**

WEIGHT IN POUNDS: **RECEIVED** MAR 07 1988

P.T. 77440 lb GROSS
28660 lb TARE
48780 lb NET

4:04PM 2-25-88

CASMALIA RESOURCES
P.O. BOX 5275 • SANTA BARBARA, CA 93150 • PHONE (805) 969-5897

102001

GENERATOR Emeryville Baytrans

TRANSPORTER James Crooks

BILLED TO Riedel Env. Oakland

POINT OF ORIGIN

WASHOUT: YES ____ NO ____

MANIFEST # 87611838

TRUCK LIC. #'S 2K22692

TRAILER LIC. #'S 1UA6385

APPOINTMENT NUMBER

FOR OFFICE USE ONLY

1. ____ @ ____ ____
2. ____ @ ____ ____
3. ____ ____
4. WASHOUT ____ ____
5. Hazardous Waste Fee ____ TONS @ ____ ____
6. SUPERFUND ____ ____
7. S. B. COUNTY TAX ____

TOTAL $ ____

BY: CASMALIA RESOURCES WEIGHMASTER

DEPUTY Mari Crosby DRIVER James L Crooks CLASS IS SPR CR

☒ HAZARDOUS ☐ NON-HAZARDOUS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC000655174
Manifest Document No.: 4024
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Emeryville Baytront a CA Limited Partnership c/o Benefit Capital Corporation 1330 BROADWAY SUITE 500 OAKLAND, CA 94612
4. Generator's Phone: (415) 834-1337

A. State Manifest Document Number: 87611839
B. State Generator's ID

5. Transporter 1 Company Name: ~~Casmalia Resources~~ MH
6. US EPA ID Number: ~~CA D 020 748 1 2 5~~
C. State Transporter's ID
D. Transporter's Phone: (805) 937-8449

7. Transporter 2 Company Name: Bodine Trucking
8. US EPA ID Number: CAD 980032898
E. State Transporter's ID: 80115758
F. Transporter's Phone: (408) 262-772[illegible]

9. Designated Facility Name and Site Address: Casmalia Resources, NTU Road, Casmalia, CA 93429
10. US EPA ID Number: CA D 020 748 1 2 5
G. State Facility's ID: CAD020748125
H. Facility's Phone: (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATED SOIL (CALIFORNIA REGULATED WASTE ONLY)	01	DT	*		State: 223; EPA/Other: NON-RCRA
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above: * = Estimated Cubic YARDS

K. Handling Codes for Wastes Listed Above: a. 03 b. c. d.

15. Special Handling Instructions and Additional Information
wear protective clothing, gloves and goggles - IN CASE OF SPILL CALL RIEDEL ENVIRONMENTAL SERVICES, INC. (415)-222-7810

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: | Signature: | Month Day Year:

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ANTHONY DUCKWORTH, FOR RONALD V. SCHWARTZ | Signature: Anthony Duckworth for Ronald V. Schwartz | Month Day Year: 02 22 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bill Adams | Signature: Bill Adams | Month Day Year: 02 28 88

19. Discrepancy Indication Space
LINE #17 - Generator inadvertently signed manifest as Transporter #1 on Line #17 - Should have signed on Line #16 as Generator. Transporter #1 Bodine Trucking has signed on Line #18. Witness: K.C. MH

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Casmalia Resources — SHERRY L. MOBLEY | Signature: Dennis Fraley for Sherry Mobley | Month Day Year: 02 26 88

DHS 8022 A (1/87) #101956 - 45,420 lbs
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BACK

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER, WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 (COMMENCING WITH SECTION 12700) OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WEIGHED AT: **N.T.U. ROAD, CASMALIA, CA.**

WEIGHT IN POUNDS: RECEIVED MAR 07 1988

75660 lb GROSS
30240 lb TARE
45420 lb NET

2-25-88 7:55AM

BY: CASMALIA RESOURCES WEIGHMASTER

DEPUTY Dennis Fraley DRIVER Bell

CLASS I-S SPR

☑ HAZARDOUS ☐ NON-HAZARDOUS

CASMALIA RESOURCES
P.O. BOX 5275 • SANTA BARBARA, CA 93150 • PHONE (805) 969-5897

101956

GENERATOR Emeryville Bayfront

TRANSPORTER Bodine Trucking

BILLED TO

POINT OF ORIGIN Oakland ca

WASHOUT: YES ____ NO ✓

MANIFEST # 87611839

TRUCK LIC. #'S 1P32722

TRAILER LIC. #'S YB5182

APPOINTMENT NUMBER

FOR OFFICE USE ONLY

1. ____ @ ____ ____
2. ____ @ ____ ____
3. ____ ____
4. WASHOUT ____ ____
5. Hazardous Waste Fee ____ TONS @ ____ ____
6. SUPERFUND ____ ____
7. S. B. COUNTY TAX ____

TOTAL $ ____

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000655174 — Manifest Document No. 4023
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
EMERYVILLE BAYFRONT a CA Limited Partnership
c/o Benefit Capital Corporation
1330 BROADWAY SUITE 500
OAKLAND, CA 94612
4. Generator's Phone (415) 834-1337

A. State Manifest Document Number 87611840
B. State Generator's ID

5. Transporter 1 Company Name: Casmalia Resources
6. US EPA ID Number: CA D 02 107 48 1 2 5
C. State Transporter's ID 80894
D. Transporter's Phone (805) 937-8449

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Casmalia Resources
NTU Road
Casmalia, CA 93429
10. US EPA ID Number: CA D 02 107 48 1 2 5
G. State Facility's ID CAD020748125
H. Facility's Phone (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATED SOIL (CALIFORNIA REGULATED WASTE ONLY)	01	DT	* 00020	Y	State 223 EPA/Other NON RCRA
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
* = Estimated Cubic YARDS

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
wear protective clothing, gloves and goggles - IN CASE OF SPILL CALL RIEDEL ENVIRONMENTAL SERVICES, INC. (415) 222-7810

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Emeryville Bayfront, A California Limited Partnership, Wesewics Inc. dba Benefit Capital Corporation, General Partner
Signature: [signature] President
Month Day Year: 10 22 88

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael D. Mochoc
Signature: [signature]
Month Day Year: 10 22 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Sherry L. Mobley — Casmalia Resources #101947 - 47,180 lbs.
Signature: [signature]
Month Day Year: 10 24 88

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BACK

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER, WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY, OF ACCURACY AS PRESCRIBED BY CHAPTER 7 (COMMENCING WITH SECTION 12700) OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WEIGHED AT: **N.T.U. ROAD, CASMALIA, CA.**

WEIGHT IN POUNDS: **RECEIVED** MAR 07 1988

f.t. 76200 lb GROSS
29020 lb TARE
47180 lb NET

9:58PM 2-24-88

BY: CASMALIA RESOURCES WEIGHMASTER

DEPUTY [signature] DRIVER [signature] CLASS 1-S SPR

☒ HAZARDOUS ☐ NON-HAZARDOUS

CASMALIA RESOURCES

P.O. BOX 5275 • SANTA BARBARA, CA 93150 • PHONE (805) 969-5897

101941

GENERATOR Emeryville Bayfront

TRANSPORTER Casmalia

BILLED TO Redel Env.

POINT OF ORIGIN Oakland

WASHOUT: YES ____ NO ____

MANIFEST # 87611840

TRUCK LIC. #'S 2X8190

TRAILER LIC. #'S 1D8369

APPOINTMENT NUMBER

FOR OFFICE USE ONLY

1. ____ @ ____ ____
2. ____ @ ____ ____
3. ____ ____
4. WASHOUT ____ ____
5. Hazardous Waste Fee ____ TONS @ ____ ____
6. SUPERFUND ____ ____
7. S. B. COUNTY TAX ____

TOTAL $ ____

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC000065517
Manifest Document No.: 44021
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Emeryville Bayfront a CA. Limited Partnership c/o Benefit Capital Corporation 1330 Broadway Suite 300 Oakland, CA 94612
4. Generator's Phone: (415) 834-1337

A. State Manifest Document Number: 87611841
B. State Generator's ID:

5. Transporter 1 Company Name: Casmalia Resources
6. US EPA ID Number: CAD020748125
C. State Transporter's ID: 809156
D. Transporter's Phone: (805) 937-8449

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Casmalia Resources, NTU Road, Casmalia, CA 93429
10. US EPA ID Number: CAD020748125
G. State Facility's ID: CAD020748125
H. Facility's Phone: (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATED SOIL (CALIFORNIA REGULATED WASTE ONLY)	01	DT	* 00017	Y	State 223; EPA/Other NON-RCRA
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above: * = Estimated Cubic Yards
SEE ANALYSIS ATTACHED

K. Handling Codes for Wastes Listed Above: a. 03 b. c. d.

15. Special Handling Instructions and Additional Information
wear protective clothing, gloves and goggles - IN CASE OF SPILL CALL RIEDEL ENVIRONMENTAL SERVICES, INC. (415) 222-7810

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Emeryville Bayfront, a California Limited Partnership, Wesmarics Inc. dba Benefit Capital Corporation General Partner
Signature: [signature] President
Month Day Year: 02 24 88

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RANDY S. LIMON
Signature: [signature]
Month Day Year: 02 24 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Casmalia Resources / Sherry L. Mobley
#101945 - 43,140 lbs.
Signature: Sherry Mobley
Month Day Year: 02 24 88

FACILITY

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BACK

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER, WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 (COMMENCING WITH SECTION 12700) OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WEIGHED AT: **N.T.U. ROAD, CASMALIA, CA.**

WEIGHT IN POUNDS: **RECEIVED** MAR 07 1988

72500 lb GROSS
P.T 29360 lb TARE
43140 lb NET

6:44PM2-24-88

BY: CASMALIA RESOURCES WEIGHMASTER

DEPUTY Marc Cosby DRIVER [signature] CLASS I SPR CJ

☒ HAZARDOUS ☐ NON-HAZARDOUS

CASMALIA RESOURCES 101945

P.O. BOX 5275 • SANTA BARBARA, CA 93150 • PHONE (805) 969-5897

GENERATOR Emeryville Bayfront

TRANSPORTER Casmalia Resources

TRUCK LIC. #S 3H34782

TRAILER LIC. #S 1UF1573

BILLED TO Riedel Env.

APPOINTMENT NUMBER ____

POINT OF ORIGIN Oakland

WASHOUT: YES ____ NO ____

MANIFEST # 87611841

FOR OFFICE USE ONLY

1. ____ @ ____ ____
2. ____ @ ____ ____
3. ____ ____
4. WASHOUT ____ ____
5. Hazardous Waste Fee ____ TONS @ ____ ____
6. SUPERFUND ____ ____
7. S. B. COUNTY TAX ____

TOTAL $ ____

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000965517 Manifest Document No. 14925
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
EMERYVILLE BAYFRONT a CA, Limited Partnership
c/o Benefit Capital Corporation
1330 BROADWAY SUITE 500
OAKLAND, CA 94612
4. Generator's Phone (415) 834-1337

A. State Manifest Document Number 87611900
B. State Generator's ID

5. Transporter 2 Company Name: Casmalia Resources
6. US EPA ID Number: CA D 02 07 48 1 2 5
C. State Transporter's ID
D. Transporter's Phone (805) 937-8449

7. Transporter 1 Company Name: JAMES R. CROOKS
8. US EPA ID Number: CAD981404915
E. State Transporter's ID 809297
F. Transporter's Phone 805-481-7806

9. Designated Facility Name and Site Address
Casmalia Resources
NTU Road
Casmalia, CA 93429
10. US EPA ID Number: CA D 02 07 48 1 2 5
G. State Facility's ID
H. Facility's Phone (805) 937-8449

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	WASTE HYDROCARBON CONTAMINATED SOIL (CALIFORNIA REGULATED WASTE ONLY)	02	DT	* 17	Y.D.	State 223; EPA/Other NON-RCRA
b.						State; EPA/Other
c.						State; EPA/Other
d.						State; EPA/Other

J. Additional Descriptions for Materials Listed Above
* ESTIMATED CUBIC YARDS

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
Wear protective clothing, gloves and goggles IN CASE OF SPILL CALL RIEDEL ENVIRONMENTAL SERVICES, INC (415) 222-7810

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: EMERYVILLE BAYFRONT LIMITED PARTNERSHIP, A CALIFORNIA LIMITED PARTNERSHIP, [illegible] dba BENEFIT CAPITAL CORPORATION GENERAL PARTNER / RONALD V. SCHWARTZ, PRESIDENT
Signature: [signature]
Month Day Year: 0 1 0 9 8 8

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JAMES R. CROOKS
Signature: [signature]
Month Day Year: 1 9 3 7 9 8

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Casmalia Resources
Signature
Month Day Year

A (1/87)
22
Previous editions are obsolete.

YELLOW: GENERATOR RETAINS

INSTRUCTIONS ON THE BACK

E OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000656

3. Generator's Name and Mailing Address
EMERYVILLE BAYFRONT a' CA, Limited Partne
c/o Benefit Capital Corporation
1330 BROADWAY SUITE 500
4. Generator's Phone (415) 834-1337 OAKLAND, CA 9

5. Transporter 2 Company Name
Casmalia Resources
6. CA D 02 07 4

7. Transporter 1 Company Name
JAMES R. CROOKS
8. ICAD 91

9. Designated Facility Name and Site Address
Casmalia Resources
NTU Road
Casmalia, CA 93429
10. CA D 02 07 4

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID N

a. WASTE HYDROCARBON CONTAMINATED S (CALIFORNIA REGULATED WASTE ONLY

b.

c.

d.

J. Additional Descriptions for Materials Listed Above
* ESTIMATED CUBIC YARDS

15. Special Handling Instructions and Additional Information
wear protective clothing, gloves
CALL RIEDEL ENVIRONMENTA

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents name and are classified, packed, marked, and labeled, and are in international and national government regulations.

If I am a large quantity generator, I certify that I have a program in determined to be economically practicable and that I have selected me which minimizes the present and future threat to human health faith effort to minimize my waste generation and select the best was

Printed/Typed Name EMERYVILLE BAYFRONT LIMITED PARTNERSHIP, A CALIFORNIA LIMITED PARTNERSHIP, ... dba BENEFIT CAPITAL CORPORATION

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name JAMES R. CROOKS

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materia
Printed/Typed Name Sherry L. Mobley
Casmalia Resources

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete.

Yellow: TSDF SENDS THIS COPY

IN CASE OF AN EMERGENCY ... RECEIVED MAR 21 1988

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER, WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 (COMMENCING WITH SECTION 12700) OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WEIGHED AT: N.T.U. ROAD, CASMALIA, CA.

WEIGHT IN POUNDS:
77980 lb GROSS
28860 lb TARE
49120 lb NET
6:59AM3-10-88

BY: CASMALIA RESOURCES
DEPUTY
WEIGHMASTER
DRIVER

CLASS I-S SPR CJ
☒ HAZARDOUS ☐ NON-HAZARDOUS

CASMALIA RESOURCES
P.O. BOX 5275 • SANTA BARBARA, CA 93150 • PHONE (805) 969-5897

102462

GENERATOR Emeryville Bayfront
TRANSPORTER James R. Crooks
BILLED TO
POINT OF ORIGIN Oakland, CA
WASHOUT: YES ___ NO ✓
MANIFEST # 8761190

TRUCK LIC. #'S 2C22G9
TRAILER LIC. #'S 1UH81
APPOINTMENT NUMBER

FOR OFFICE USE ONLY
1. ___ @ ___
2. ___ @ ___
3. 3 @ BC45 Comed
4. WASHOUT ___
5. Hazardous Waste Fee ___ TONS @ ___
6. SUPERFUND ___
7. S. B. COUNTY TAX ___
TOTAL $

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAG000655171 Manifest Document No. 44926
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
EMERYVILLE BAYFRONT a CA LIMITED PARTNERSHIP
c/o Benefit Capital Corporation
1330 Broadway, Suite 500
OAKLAND, CA 94612
4. Generator's Phone (415) 834-1337

A. State Manifest Document Number 87338166
B. State Generator's ID

5. Transporter 1 Company Name: JAMES R. CROOKS
6. US EPA ID Number: CAD981140415
C. State Transporter's ID: 808929
D. Transporter's Phone: (805) 937-8449

7. Transporter 2 Company Name: Casmalia Resources
8. US EPA ID Number: CAD020748125
E. State Transporter's ID
F. Transporter's Phone: (805) 937-8449

9. Designated Facility Name and Site Address
Casmalia Resources
NTU Road
CASMALIA, CA 93429
10. US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone: (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATE SOIL (California regulated waste only)	01	DT	*		State 223; EPA/Other NON-RCRA
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
* estimated cubic yards

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING, GLOVES + GOGGLES - IN CASE OF SPILL CALL RIEDEL ENVIRONMENTAL SERVICES, INC (415) 222-7810

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: EMERYVILLE BAYFRONT LIMITED PARTNERSHIP, A CALIFORNIA LIMITED PARTNERSHIP, [illegible] BENEFIT CAPITAL [illegible]
Signature: Anthony [illegible] FOR GENERAL PARTNER / RONALD V. SCHWARTZ [illegible]
Month Day Year: 03 09 88

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Douglas Emard
Signature: [signature]
Month Day Year: 03 09 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete.

YELLOW: GENERATOR RETAINS

INSTRUCTIONS ON THE BACK

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD000061515

3. Generator's Name and Mailing Address
EMERYVILLE BAYFRONT a/ CA, LIMITED
c/o Benefit Capital Corporation
1330 Broadway, Suite 500

4. Generator's Phone (415) 834-1337 OAKLAND, CA

5. Transporter 1 Company Name — 6. US EP
JAMES R. CROOKS — CAD981

7. Transporter 2 Company Name — 8. US EP
Casmalia Resources — CAD02

9. Designated Facility Name and Site Address — 10. US EP
Casmalia Resources
NTU Road
CASMALIA, CA 93429 — CAD02

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Nun

a. WASTE HYDROCARBON CONTAMINATE (California regulated waste only)

b.

c.

d.

J. Additional Descriptions for Materials Listed Above
* estimated cubic yards

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING, GLOVES
CALL RIEDEL ENVIRONMENTAL SE

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of t name and are classified, packed, marked, and labeled, and are in all r international and national government regulations.

If I am a large quantity generator, I certify that I have a program in plac determined to be economically practicable and that I have selected the me which minimizes the present and future threat to human health and faith effort to minimize my waste generation and select the best waste m

Printed/Typed Name EMERYVILLE BAYFRONT LIMITED PARTNERSHIP, A CALIFORNIA LIMITED PARTNERSHIP, BY: BENEFIT CAPITAL CORPORATION, A CALIFORNIA CORPORATION, ITS GENERAL PARTNER — Signat

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Douglas Ford — Signat

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signat

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials co

Printed/Typed Name # 102456 - 37,400 lbs — Signa
CASMALIA RESOURCES

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/87)
EPA 8700—22
(Rev 9-86) Previous editions are obsolete. Yellow: TSDF SENDS THIS COPY TO GE

RECEIVED MAR 21 1988

CASMALIA RESOURCES
P.O. BOX 5275 • SANTA BARBARA, CA 93150 • PHONE (805) 969-5897

102456

GENERATOR Emeryville Bayfront

TRANSPORTER Casmalia Resources

BILLED TO Burlington Env.

POINT OF ORIGIN

WASHOUT: YES ___ NO ___

MANIFEST # 873381666

TRUCK LIC. #'S LV68520

TRAILER LIC. #'S YA9872

APPOINTMENT NUMBER

FOR OFFICE USE ONLY

1. ___ @ ___
2. ___ @ ___
3. 3 Bags Comm
4. WASHOUT ___
5. Hazardous Waste Fee ___ TONS @ ___
6. SUPERFUND ___
7. S. B. COUNTY TAX ___

TOTAL $ ___

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER, WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 (COMMENCING WITH SECTION 12700) OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WEIGHED AT: N.T.U. ROAD, CASMALIA, CA.

WEIGHT IN POUNDS:

Pit 73480 lb GROSS
36080 lb TARE
37400 lb NET

6:28PM 3-9-88

WEIGHMASTER

BY: CASMALIA RESOURCES

DEPUTY

DRIVER

HAZARDOUS ☐ CLASS 15 SPR CJ

☐ NON-HAZARDOUS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC000955174 — Manifest Document No.: 4047
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 87338167

3. Generator's Name and Mailing Address: EMERYVILLE BAYFRONT a CA LIMITED PARTNERSHIP c/o Benefit Capital Corporation 1330 Broadway, Suite 500 OAKLAND, CA 94612
4. Generator's Phone (415) 834-1337

B. State Generator's ID

5. Transporter 1 Company Name: CASMALIA RESOURCES
6. US EPA ID Number: CAD020748125
C. State Transporter's ID
D. Transporter's Phone (805) 937-8449

7. Transporter 2 Company Name: Acklam Trucking
8. US EPA ID Number: CAD981429813
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: CASMALIA RESOURCES NTU ROAD CASMALIA, CA 93429
10. US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone (805) 937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE HYDROCARBON CONTAMINATED SOIL (CALIFORNIA REGULATED WASTE ONLY)	1	DT	* 18	Y	State 223; EPA/Other NON-RCRA
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above: * ESTIMATED CUBIC YARDS

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information: WEAR PROTECTIVE CLOTHING, GLOVES AND GOGGLES. IN CASE OF SPILL CALL RIEDEL ENVIRONMENTAL SERVICES, INC (415) 222-7810

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: EMERYVILLE BAYFRONT LIMITED PARTNERSHIP, A CALIFORNIA LIMITED PARTNERSHIP, [illegible] INC dba BENEFIT CAPITAL CORPORATION, GENERAL PARTNER
Signature: [signature] FOR RONALD V. SCHWARTZ, PRESIDENT
Month Day Year: 03 04 88

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: G. TODD Acklam — Signature: [signature] — Month Day Year: 03 4 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete.

YELLOW: GENERATOR RETAINS

INSTRUCTIONS ON THE BACK

Department of Health Services
Toxic Substances Control Division
Sacramento, California

[cut off] Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
65517440 27	1 of 1	

PARTNERSHIP

A. State Manifest Document Number **87338167**

B. State Generator's ID

..., CA 94612

US EPA ID Number ...0 2 9 7 4 8 1 2 5

C. State Transporter's ID

D. Transporter's Phone (805) 937-8449

US EPA ID Number ...9 8 1 4 2 9 4 1 3

E. State Transporter's ID 91524800-0766

F. Transporter's Phone

US EPA ID Number

G. State Facility's ID CAD020748125

H. Facility's Phone (805) 937-8449

...0 2 9 7 4 8 1 2 5

...d ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
SOIL ...NLY)	1	DT	* 18	Y	State 223 / EPA/Other NON-RCRA
					State / EPA/Other
					State / EPA/Other
					State / EPA/Other

K. Handling Codes for Wastes Listed Above
a. 03 b.
c. d.

...ES AND GOGGLES
...ENVIRONMENTAL SERVICES, INC (415) 222-7810

...of this consignment are fully and accurately described above by proper shipping ...ll respects in proper condition for transport by highway according to applicable ...

...lace to reduce the volume and toxicity of waste generated to the degree I have ... the practicable method of treatment, storage, or disposal currently available to ...nd the environment; OR, if I am a small quantity generator, I have made a good ...e management method that is available to me and that I can afford.

...nature Anthony [illegible] FOR RONALD V. SCHWARTZ, PRESIDENT — Month Day Year 03 04 88

...nature G. Todd Acklam — Month Day Year 03 09 88

...ature — Month Day Year

...overed by this manifest except as noted in Item 19.

...ature Dennis Fraley Dennis Fraley — Month Day Year 03 10 88

INSTRUCTIONS ON THE BACK

...ENERATOR WITHIN 30 DAYS

CASMALIA RESOURCES
P.O. BOX 5275 • SANTA BARBARA, CA 93150 • PHONE (805) 969-5897

102473

GENERATOR Emeryville Bayfront
TRANSPORTER Ackland III
BILLED TO Riedel Env
POINT OF ORIGIN Emeryville
WASHOUT: YES ___ NO ✓
MANIFEST # 87338167
CLASS IS SPR CT
☒ HAZARDOUS ☐ NON-HAZARDOUS

TRUCK LIC. #'S BP12582
TRAILER LIC. #'S CT48195
APPOINTMENT NUMBER

FOR OFFICE USE ONLY
1. ___ @ ___
2. ___ @ ___
3. ___
4. WASHOUT ___
5. Hazardous Waste Fee ___ TONS @ ___
6. SUPERFUND ___
7. S. B. COUNTY TAX ___
TOTAL $ ___

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER, WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 (COMMENCING WITH SECTION 12700) OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

WEIGHED AT: N.T.U. ROAD, CASMALIA, CA.

WEIGHT IN POUNDS:

77440 lb GROSS 10:45AM
31760 lb TARE
45680 lb NET

35 INBOUND
77440 lb 8:24AM 3-10-88

BY: CASMALIA RESOURCES
DEPUTY Dennis Fraley
WEIGHMASTER

DRIVER Todd Acklam

RECEIVED MAR 21 1988

JF

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-88)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC 000655174
Manifest Document No.: 4928
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
EMERYVILLE BAYFRONT A CA. LIMITED PARTNERSHIP
c/o Benefit Capital Corporation
1330 BROADWAY, SUITE 500
OAKLAND, CA 94612
4. Generator's Phone: (415) 834-1337

A. State Manifest Document Number: 87338168
B. State Generator's ID:

5. Transporter 1 Company Name: H + H Ship Service
6. US EPA ID Number: CAD 004771168
C. State Transporter's ID: 902 444
D. Transporter's Phone: (415) 543-4835

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
H + H Ship Service
220 China Basin
San Francisco, CA 94107
10. US EPA ID Number: CAD 004771168
G. State Facility's ID: 38-0011-78
H. Facility's Phone: (415) 543-4835

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RT HAZARDOUS WASTE LIQUID, N.O.S. ORM-E NA 9189 (GASOLINE, DIESEL, MOTOR OIL)	01	TT	* 3180	G	State 223; EPA/Other
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above:
* ESTIMATED U.S.A. GALLONS
~99% water, ≤1% oils

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information:
WEAR PROTECTIVE CLOTHING, GLOVES, GOGGLES — IN CASE OF SPILL CALL RIEDEL ENVIRONMENTAL SERVICES, INC. (415) 222-7810.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Emeryville Bayfront, a California Limited Partnership, Wesnovics Inc. dba Benefit Capital Corporation, General Partner
Signature: [signature]
Month Day Year: 03 15 88

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEVE MESQUITE
Signature: [signature]
Month Day Year: 03 16 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Month Day Year:

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete.

YELLOW: GENERATOR RETAINS

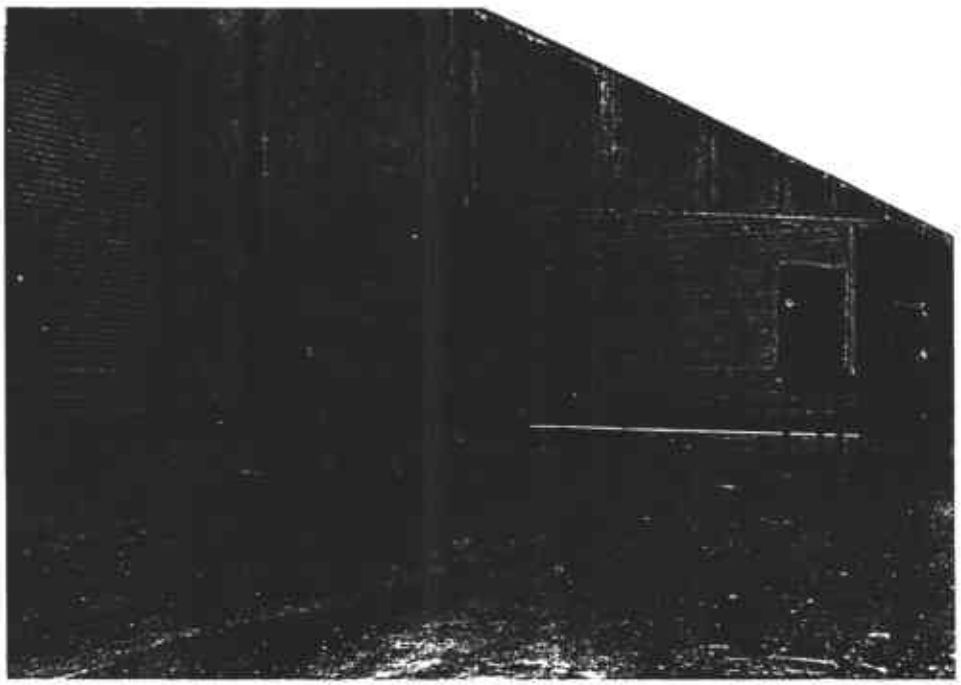
INSTRUCTIONS ON THE BACK

ENGINEERING-SCIENCE

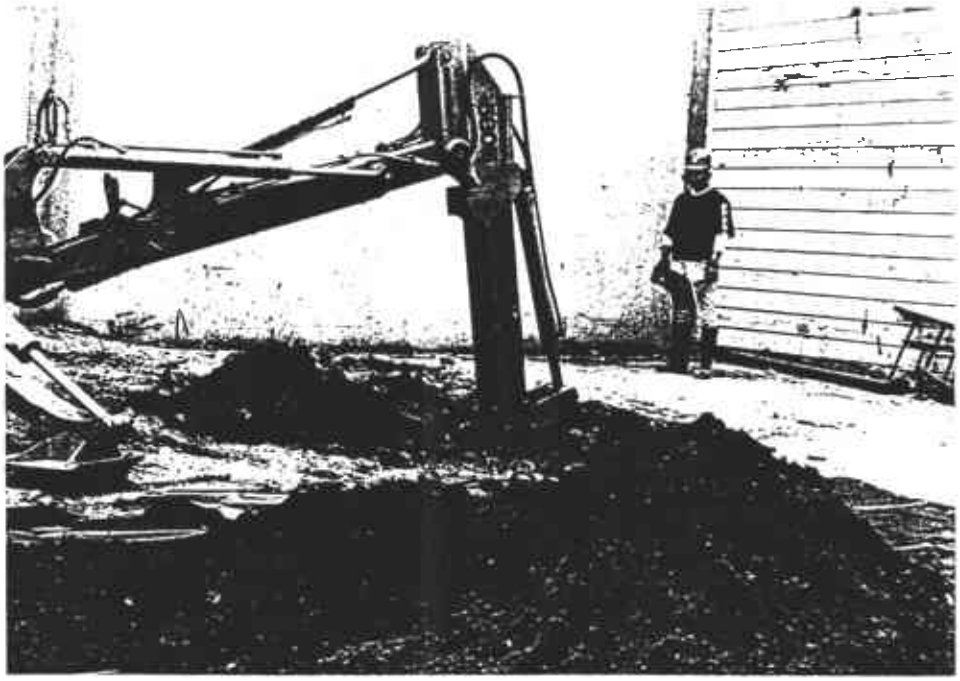
Client BCC | Job No. NCO49.08 | Sheet ____ of ____

Subject 1650 65TH STREET SITE EXCAVATION | By PLB | Date 3/31/88

Checked ____ | Rev. ____



1. SITE PRIOR TO EXCAVATION



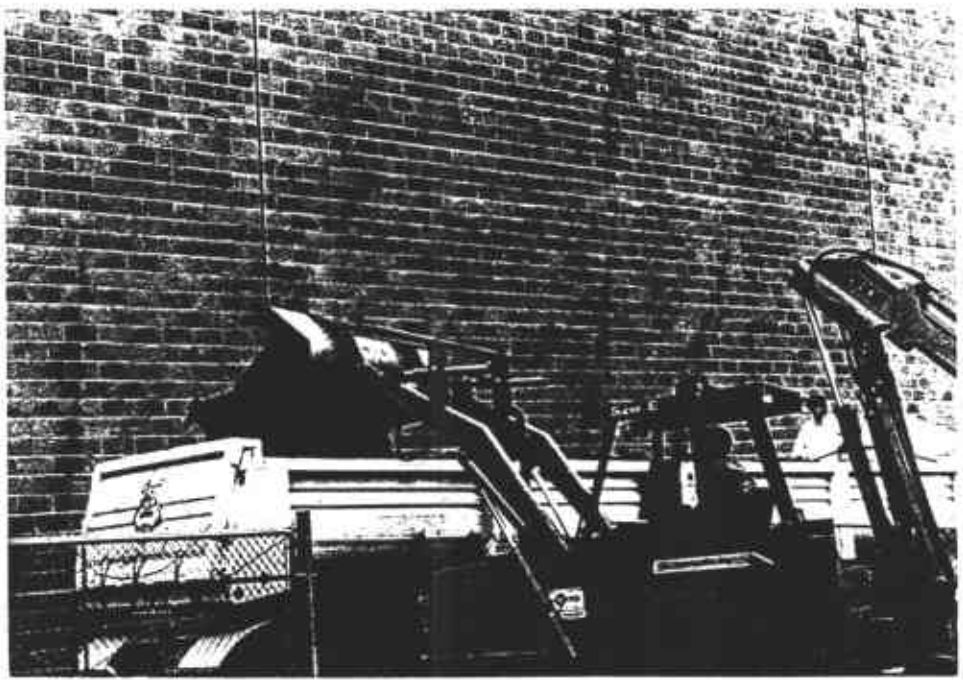
2. EQUIPTMENT USED AND SITE EXCAVATION

Client BCC | Job No. NCO49.08 | Sheet ____ of ____

Subject 1650 65TH STREET SITE EXCAVATION | By PLB | Date 3/31/88

Checked ____ | Rev. ____

3. EXCAVATION PIT



4. LOADING OF CONTAMINATED SOIL

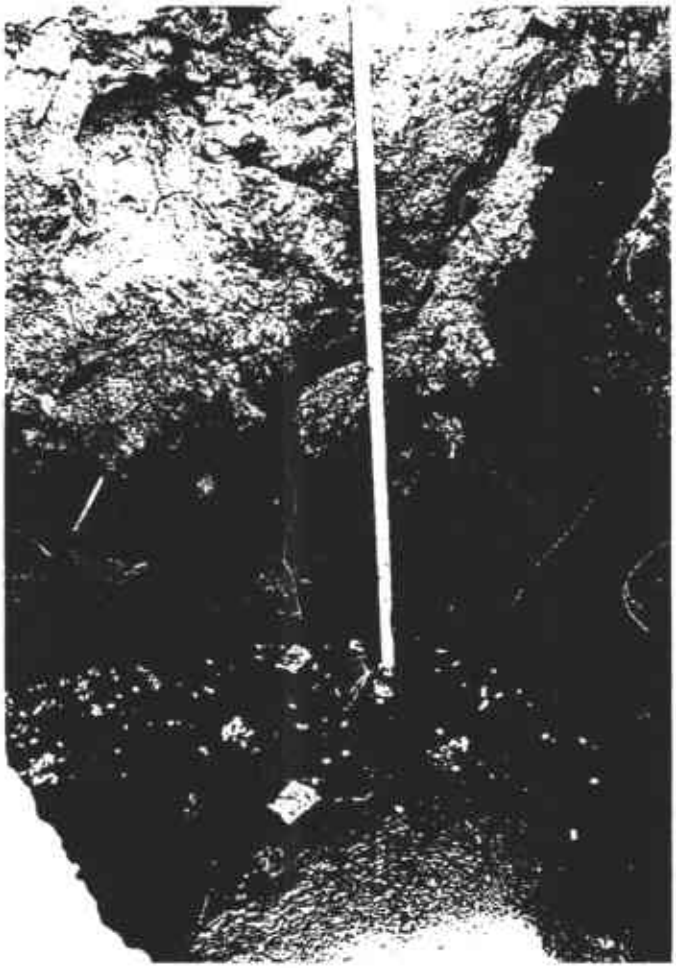
ENGINEERING-SCIENCE

Client BCC | Job No. NCO49.08 | Sheet ____ of ____

Subject 1650 65TH STREET | By PLB | Date 3/31/88

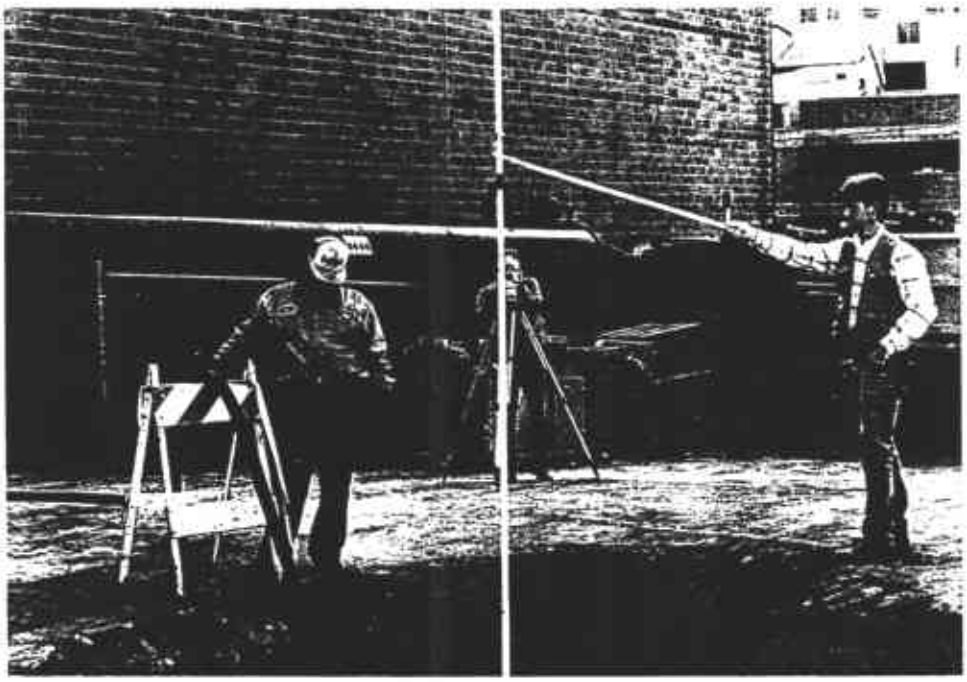
SITE EXCAVATION | Checked ____ | Rev. ____

5. SLUDGE ON TOP OF WATER IN PIT

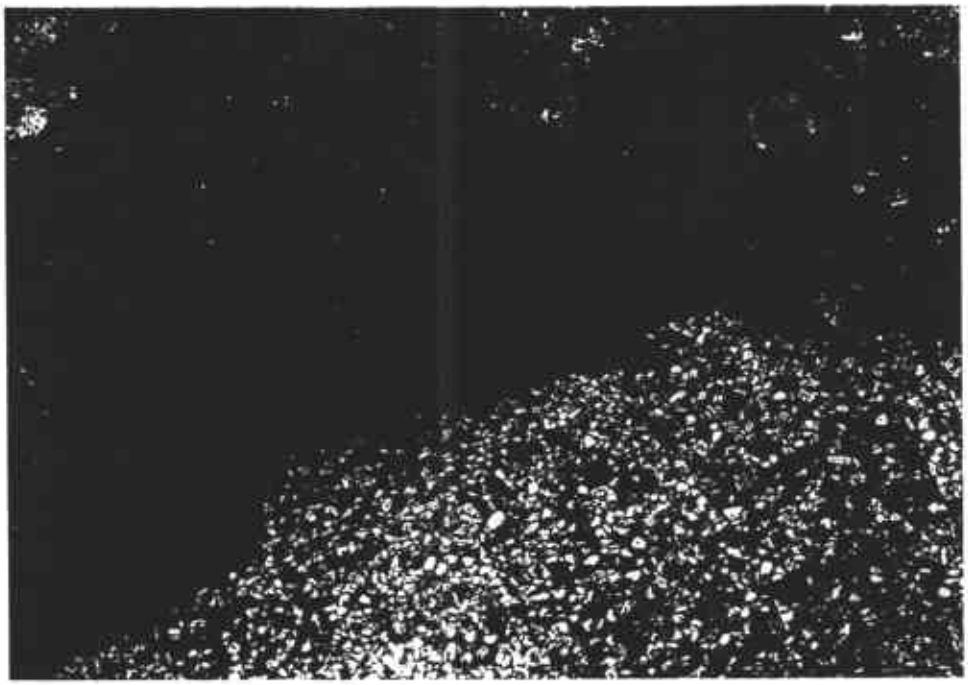


6. EXCAVATION DEWATERING

7. EXCAVATION BELOW GROUNDWATER TABLE



8. POST EXCAVATION SURVEY



9. EXCAVATION BACKFILLING UP TO GROUNDWATER TABLE

10. COMPACTION EQUIPTMENT USED

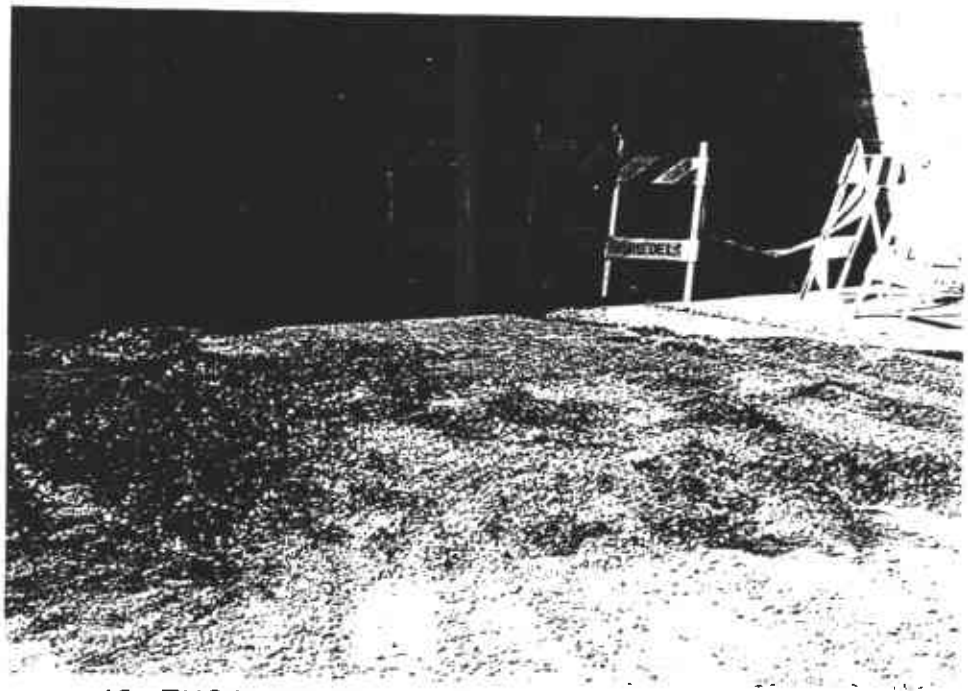
ENGINEERING-SCIENCE

Client BCC | Job No. NCO49.08 | Sheet ____ of ____

Subject 1650 65TH STREET SITE EXCAVATION | By PLB | Date 3/31/88

Checked ____ | Rev. ____

11. NO VISIBLE STRESS DEVELOPMENT IN THE WALL AND PAVEMENT AFTER COMPLETION OF BACKFILL



12. EXCAVATION BACKFILLING COMPLETED