SEP 22 '98 AM 8:58

Golder Associates Inc.

180 Grand Avenue, Suite 250
Oakland, CA USA 94612
Telephone (510) 239-9000
Fax (510) 239-9010

Golder Associates

TRANSMITTAL LETTER

TO: Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502

DATE: September 18, 1998
PROJECT NO.: 973-7187.400

SENT BY: Rajeev Cherwoo

✓ Mail
Hand Carried
Overnight Express

Other
Under Separate Cover
Enclosed

Quantity	Item	Description
1 Copy	Report	Removal of Two 10,000 Gallon Capacity Under Ground Storage Tanks Watergate Towers Property, 2200 Powell Street, Emeryville, California

Remarks:

Please call if you have any questions.

Per: Rajeev Cherwoo

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Golder Associates Inc.

180 Grand Avenue, Suite 250
Oakland, CA USA 94612
Telephone (510) 239-9000
Fax (510) 239-9010

REMOVAL OF TWO 10,000 GALLON CAPACITY UNDERGROUND STORAGE TANKS WATERGATE TOWERS PROPERTY 2200 POWELL STREET EMERYVILLE, CALIFORNIA

Prepared for:

Spieker Properties

Prepared by:

Golder Associates Inc.
Oakland, California

Rajeev Cherwoo
Project Engineer

Charles Almestad, R.G., C. HG.
Associate

September 18, 1998

973-7187

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1. INTRODUCTION

Golder Associates, Inc. (Golder) prepared this report on behalf of Spieker Properties, for Watergate Towers Property, 2200 Powell Street, Emeryville, California. This report documents our field observations and results of sampling performed during the removal of two 10,000-gallon capacity underground storage tanks (UST) at the site in July 1998. A site location map is shown on Figure 1. A site plan including locations of two USTs (UST#1 and UST#2) and two fuel dispensers (FD#1 and FD#2) is shown in Figure 2.

2. SITE BACKGROUND

Historically the site was a part of San Francisco Bay. Beginning in the 1940s, and until the mid 1960s the site and the surrounding area was filled. Impoundment dikes of soil, rocks and debris were constructed on bay tidelands, and then the area within the dikes was filled with materials including construction debris, foundry casing sands and slag, soil and industrial wastes. In approximately 1968, the property was purchased by F. P. Lathrop and the entire site and the surroundings were capped with engineered fill, pavement and structural foundation slabs. The Watergate Office Complex, the first development of the site consists of three multi-story commercial office buildings (Towers I, II and III) on the north side of Powell Street in Emeryville, California. Two 10,000 gallon capacity USTs were installed at the site in 1984-1985.

In 1989, Woodward Clyde Corporation (WCC) performed Phase I, II and III environmental assessments at the site. Five ground water monitoring wells were installed around the property. A range of chemical constituents were detected in soil and ground water samples collected from the site. Among other chemical constituents, petroleum hydrocarbons were detected in water samples collected from all ground water monitoring wells, and their presence is attributed to the fill material placed in the diked areas. WCC concluded that there is no significant threat to human health and the environment because the site is "capped."

During late 1996 and 1997, Golder performed a Phase I study at the site on behalf of Spieker Properties who was planning to purchase the property. Among other agencies, Golder consulted with the Regional Water Quality Control Board (RWQCB) San Francisco Bay Region regarding the need for further action at the Watergate Office Complex. RWQCB staff reviewed the WCC reports and aerial photographs and concluded that the site was not a concern to them. The RWQCB staff considered the site to be an area of "random fill" and therefore not subject to reporting requirements under the California Code of Regulations, Title 23, Chapter 15. Further, the RWQCB indicated that since the site is located adjacent to the San Francisco Bay, their agency is the appropriate agency for handling regulatory activities associated with the site.

During the last part of 1997, Spieker Properties retained Golder to provide environmental consulting services for the removal of two 10,000 gallon capacity USTs located to the south of Tower III at the site. Based on the information provided by Spieker Properties, these USTs and associated piping had been passing the tightness tests and were not suspected to be leaking. In December 1998, Spieker Properties contracted with ICONCO of Oakland, California for the removal of the two USTs. In January 1998, ICONCO submitted a closure plan to the Alameda County Health Care Services Agency (ACHCSA). Along with the closure plan Golder submitted a letter dated January 29, 1998, to ACHCSA summarizing site background conditions. In this letter Golder proposed immediate backfilling of the pit after the removal of USTs. Golder also proposed no over-excavation of UST pit

and in-place abandonment of the fuel piping inside the parking garage. This closure plan was approved by the ACHCSA on March 11, 1998.

During April 1998, while excavating trenches for the placement of irrigation water pipelines in the landscaped islands at the site, contractors retained by Spieker Properties encountered soils containing gray fibrous materials. Results of soil samples collected by Golder from excavated soils indicated that presence of asbestos. In June 1998, Golder prepared a Work Plan for the excavation and disposal of asbestos-containing soils from the site and to cap the excavated areas by placing non-woven geotextile fabric and fill soils at the top. This Work Plan was approved by ACHCSA, RWQCB, and Bay Area Air Quality Management District (BAAQMD). Spieker Properties retained a certified asbestos abatement contractor, Marcor Remediation Inc. (Marcor) of San Leandro, California, to perform excavation, soil disposal and capping of excavated area. During July and August, 1998, Marcor performed excavation of shallow soils suspected to contain asbestos in landscaped area and USTs area at the site. Details of this work will be documented in a separate report.

3. UNDERGROUND STORAGE TANK REMOVAL

3.1 Approvals and Notifications

In January 1998, ICONCO submitted a closure plan to the ACHCSA. ACHCSA approved the closure plan on March 11, 1998. A permit to remove the USTs from Emeryville Fire Department (EFD) was obtained by ICONCO on June 8, 1998. A notification for the removal of USTs was transmitted by facsimile to the BAAQMD by ICONCO on July 2, 1998.

3.2 Sampling and Analysis of Soils Above the Underground Storage Tanks for Asbestos

On June 17, 1998, ICONCO started to excavate soils above the USTs area at the site. During the excavation ICONCO reported to have observed gray fibrous material suspected to be asbestos in soils. ICONCO reported to have terminated the excavation activities and covered the two soil stockpiles generated during the excavation with plastic liners.

On July 1, 1998, Golder staff collected a total of eight grab soil samples from two soil stockpiles at the site. Each soil sample was placed in a plastic bag and transported under chain-of-custody procedures to RJ Lee Group, Inc., of San Leandro, California. Soil samples were analyzed for asbestos by polarized light microscopy (PLM) method. Asbestos was reported in four soil samples above one percent (ranging from 5 percent to 15 percent) and at 1 percent in remaining four soil samples. Analytical laboratory report of asbestos analysis is included as Appendix A.

On July 2, 1998, ICONCO notified the BAAQMD about the presence of asbestos in soils in the USTs area and their proposed plan for work in that area. On July 7, 1998, BAAQMD granted approval (BAAQMD approval number J28228) to ICONCO to proceed with the soil excavation and USTs removal. BAAQMD verbally informed Golder that excavation work during the USTs removal should be performed by an asbestos abatement contractor and waived the requirement of enclosing the work area.

3.3 Excavation of Soils Above Underground Storage Tanks

On July 7, 1998, ICONCO prepared the USTs area for work by installing a six-foot high fence and netting at the north, east and portion of westerly end of the USTs area (Figure 3). The remaining UST area was bounded by trees and shrubs. Signs indicating asbestos abatement work in progress were installed on the fence. Spieker Properties notified tenants of the Watergate Towers complex about the excavation of asbestos containing soils at the site.

Between July 7 and 9, 1998, excavation of soils above the USTs and removal of concrete slab over the USTs was carried out with an track mounted excavator by ICONCO. During excavation, water was sprayed on the soil to suppress the emission of possible asbestos fibers. Excavated soils were stockpiled to the south of the UST area and covered with plastic sheeting (Figure 3). During the soil excavation, a certified asbestos consultant from Golder documented the field work and performed background air sampling to measure the asbestos fiber concentrations outside the work area. Analytical results of background air sampling indicated that asbestos fiber concentrations were within EPA guidelines. Personnel air monitoring was performed by ICONCO to measure the asbestos fiber concentration within the breathing zone of the workers and to evaluate the effectiveness of the personal protective equipment used by the workers. Analytical results indicated that the personal protective equipment used during the project was effective. Results of air sampling performed during the project are presented in Appendix B.

3.4 Underground Storage Tank Removal Observations

On July 8 and 9, 1998, ICONCO removed the fuel dispensers, rinsed and removed the fuel piping, removed equipment associated with the USTs, and removed vent lines. As proposed by Golder in a letter submitted along with the closure plan and approved by the ACHCSA, the fuel pipelines were rinsed and abandoned in-place by capping the ends. A total of approximately 1,350 gallons of rinsate was pumped out of the USTs and transported to Romic Chemical Corporation of Palo Alto, California. Copies of the Uniform Hazardous Waste Manifests for transportation and disposal of USTs rinsate are included as Appendix C. On August 9, 1998, George Warren from EFD and Susan Hugo from ACHCSA were on site to observe removal of USTs. Oxygen and lower explosive levels (LEL) concentrations measured from inside the USTs by ICONCO were higher than concentrations specified by ACHCSA and EFD. Based on higher oxygen and LEL levels it was decided that USTs will be inerted further prior to the removal.

On July 10, 1998, George Warren from EFD observed ICONCO measure oxygen and LEL concentrations from inside the USTs. Percent oxygen and LEL concentrations from UST #1 measured at 9.8 and 8, respectively. Percent oxygen and LEL concentrations from UST #2 measured at 8.4 and 5, respectively. These oxygen and LEL concentrations are below the levels specified by ACHCSA and EFD permit requirements, and George Warren from EFD approved the removal of two USTs. Each UST was lifted from the excavation with the excavator and placed on ground and rinsed with water from outside. The USTs appeared to be in good condition; no holes, cracks or leaks were observed at the outer surfaces. Following the removal of USTs depth to ground water was measured in the excavation using a tape measure. Depth to ground water was measured approximately 10-feet bgs along the east wall, 11-feet bgs along the south wall, 12-feet bgs along the west wall. No floating product or sheen was observed in the standing water inside the USTs excavation. Each UST was loaded on flat bed truck and transported to Erickson, Inc., of Richmond, California for disposal. The Uniform Hazardous Waste Manifests for transportation and disposal of USTs are included as Appendix C.

3.5 Confirmation Sampling

On August 10, 1998, soil samples were collected from the former location of fuel dispensers and soil and ground water samples were collected from the USTs excavation. Locations of soil samples collected on August 10, 1998 are shown in Figure 4. Results of soil and ground water samples are summarized in Table 1. The analytical laboratory report is included as Appendix D.

In the location of former fuel dispensers a hand auger was used to drill the borehole to the desired sampling depth. Soils encountered in the location of fuel dispenser FD#1 were sands and gravels. Due to auger refusal at approximately six-inches below ground surface (bgs) the borehole was terminated and soil sample D-1 was collected. Soils encountered in the location of fuel dispenser FD#2 were coarse grain sands. The borehole was extended to the depth of two-feet bgs and a soil sample D-2 was collected. Soil samples were collected in brass tubes, sealed at each end with Teflon sheets and plastic end caps. Samples were placed in an ice chest and delivered to analytical laboratory Curtis and Tompkins, Ltd., of Berkeley, California under chain-of-custody procedures. Each soil sample was analyzed for total petroleum hydrocarbon compounds quantified as gasoline (TPH-G) by EPA Method 8015M, for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020 and for lead by EPA Method 6010A. Results of sample analyses are summarized in Table 1 TPH-G and BTEX were reported below laboratory method detection limit in sample D-1. TPH-G and BTEX were reported in sample D-2 (27,000 mg/kg, >25 mg/kg, 160 mg/kg, 130 mg/kg, and 1910 mg/kg respectively). Lead was reported at 7.4 mg/kg and 31 mg/kg in soil samples collected from FD#1 and FD#2, respectively.

Soil samples from the former location of USTs were collected from three side walls (east, south and west walls) at the soil water interface. A sample was not collected from the north wall due to access limitations. The approximate location of soil samples collected from the former location of USTs is shown in Figure 4. Soils from the desired sampling location were collected in the excavator bucket and brought to the ground surface. Soil samples were collected from the excavator bucket in brass tubes by pushing them into the soils. Brass tube filled with soils were sealed at each end with Teflon sheets and plastic end caps. Soil samples were placed in an ice chest and delivered to Curtis and Tompkins, Ltd. under chain-of-custody procedures. Each soil sample was analyzed for TPH-G, BTEX and Lead. Results of soil sample collected from east wall reported TPH-G, BTEX at 5.5 mg/kg, 0.057 mg/kg, 0.047 mg/kg, 0.150 mg/kg, 1.96 mg/kg respectively. TPH-G and BTEX were reported below laboratory method detection limits in soil samples collected from south wall and west wall. Lead was reported at 67 mg/kg, 68 mg/kg and 42 mg/kg in soil samples collected from east, south and west walls respectively.

One ground water sample was collected from the northeast corner of the excavation in appropriate containers using a disposable Teflon bailer. The water sample was placed in an ice chest and delivered to Curtis and Tompkins, Ltd. under chain-of-custody prodecures for analysis of TPH-G and BTEX. Chemical results for the water sample include TPH-G and BTEX at concentrations of 30 mg/l, 1 mg/l, 6.9 mg/kg, 0.380 mg/l, and 4.5 mg/l, respectively.

3.6 Backfilling of Excavation

ICONCO reported that excavation was backfilled on July 10 and 11, 1998, with sands imported from tidewater sands of Oakland, California. The locations of former fuel dispensers were backfilled by ICONCO with sands and the surface was paved with concrete.

4. SUMMARY AND CONCLUSIONS

During the excavation of soils above the USTs, a gray fibrous material was encountered by ICONCO. Results of subsequent soil sampling performed in this area indicated that asbestos was present in the soils. BAAQMD approved the excavation and offsite disposal of soils by an asbestos abatement contractor. Between July 7 and 9, 1998, ICONCO excavated overburden soils above the USTs and stockpiled the soils on site. Results of background air sampling performed by Golder during the soil excavation indicated that asbestos fiber concentrations were within EPA guidelines. Results of personnel air monitoring performed by ICONCO during the USTs removal indicated that the personal protective equipment used was effective, and that there was no significant release to the environment.

On July 8 and 9, 1998, fuel dispensers, fuel piping, vent lines and other equipment associated with USTs were removed by ICONCO. Fuel pipelines inside the garage were rinsed and abandoned in-place by capping the ends. The location of former fuel dispensers was backfilled and sealed with concrete. On July 10, 1998, two 10,000 gallon capacity USTs were removed from the site by ICONCO and transported to Erickson, Inc. The USTs excavation was backfilled with sands.

On July 10, 1998, conformation soil and ground water samples were collected from the former location of fuel dispensers and the USTs excavation and depth to ground water was measured. TPH-G and BTEX were reported below laboratory method detection limit in soil sample collected from location of fuel dispenser FD#1. TPH-G and BTEX (27,000 mg/kg, >25 mg/kg, 160 mg/kg, 130 mg/kg, and 1910 mg/kg and 31 mg/kg respectively) were reported in soil sample collected from location of fuel dispenser FD#2 area seal. Lead was reported at 7.4 mg/kg and 31 mg/kg in soil samples collected from FD#1 and FD#2, respectively.

Results of soil samples collected from the south wall and west wall of former location of USTs reported TPH-G and BTEX below laboratory method detection limits. Results of soil sample collected from east wall reported TPH-G, BTEX at 5.5 mg/kg, 0.057 mg/kg, 0.47 mg/kg, 0.150 mg/kg, 1.96 mg/kg respectively. Lead was reported at 67 mg/kg, 68 mg/kg and 42 mg/kg in soil samples collected from east, south and west walls, respectively.

Depth to ground water measured in the USTs excavation was approximately 10-feet bgs along the east wall, 11-feet bgs along the south wall, 12-feet bgs along the west wall. Results of one ground water sample collected from the northeast corner of the USTs excavation reported TPH-G and BTEX at concentrations of 30 mg/l, 1 mg/l, 6.9 mg/kg, 0.380 mg/l, and 1.5 mg/l, respectively.

As the USTs appeared to be in good condition on removal, and had recently tested tight, it is believed that petroleum hydrocarbons detected in soil and ground water are derived from site fill materials and represent background conditions. Data on the ambient chemical quality of soils and ground water were previously submitted to the ACHCSA and the RWQCB. Consequently, no further action with respect to the former USTs is recommended.

Table 1
Confirmation Sampling Results
Underground Storage Tanks Removal
2200 Powell Street, Emeryville, California

Sample Location	Sample Depth (feet-bgs)	Date Sampled	Sampling Results					
			TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
Soil Samples Results (mg/kg)								
D-1	0.5	7/10/98	< 1	< .005	< .005	< .005	< .005	7.4
D-2	2	7/10/98	27,000	<25	160	130	1,910	31
EW-1	10	7/10/98	5.5	0.057	0.47	0.15	1.96	67
SW-1	11	7/10/98	< 1	< .005	< .005	< .005	< .005	68
WW-1	12	7/10/98	< 1	< .005	< .005	< .005	< .005	42
Ground Water Sampling Results (mg/l)								
W-1	10	7/10/98	30	1	6.9	0.380	4.5	N/A

NOTES:

D-1 and D-2: Soil samples collected in former location of fuel dispensers.

EW-1, SW-1, WW-1: Soil samples collected from sidewalls of USTs excavation.

W-1: ground water sample collected from USTs excavation.

feet-bgs: feet below ground surface.

TPH-G: Total petroleum hydrocarbons quantified as gasoline.

NA = Not Analyzed

Laboratory analysis performed by Curtis and Tompkins Ltd., Berkeley, California.

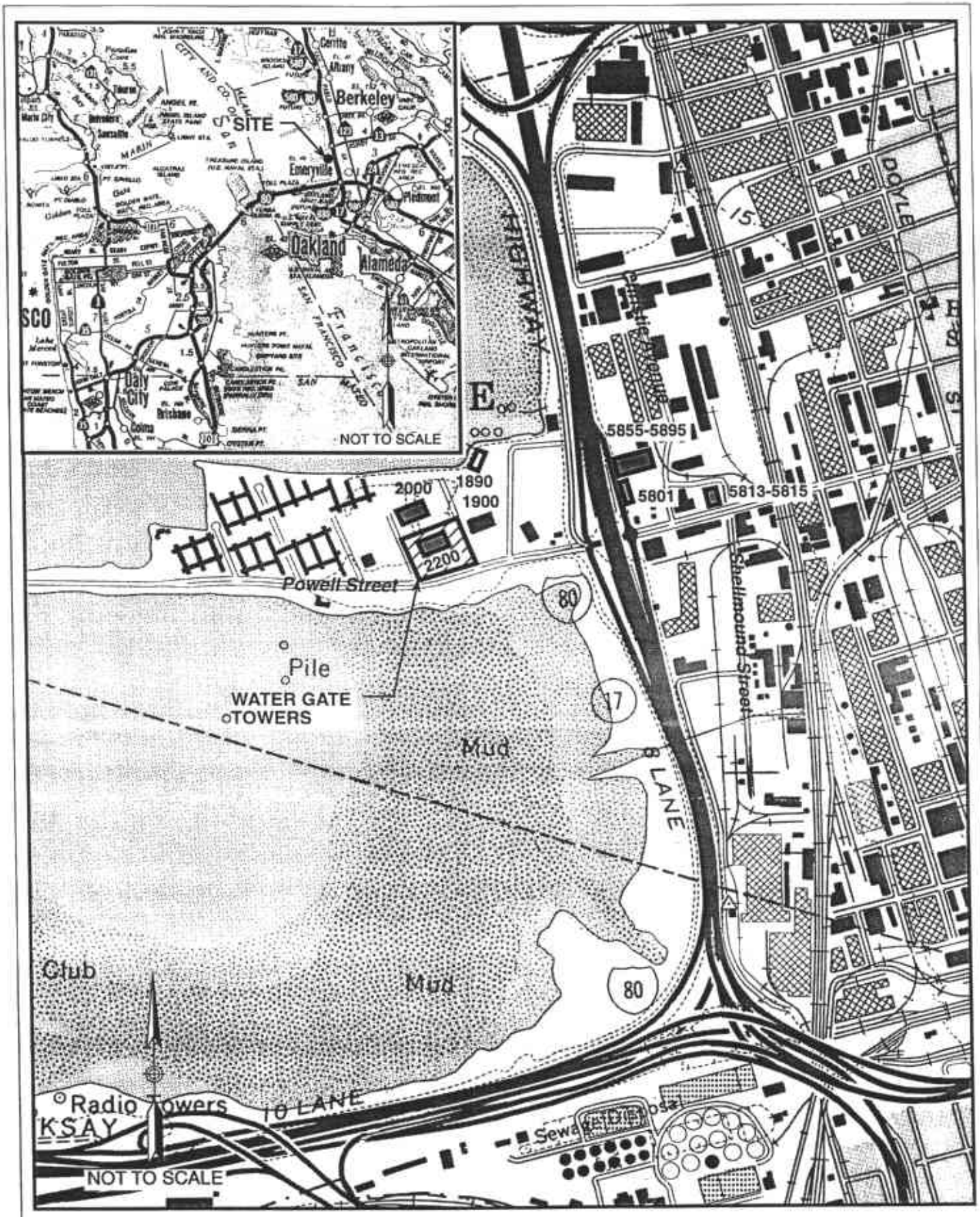


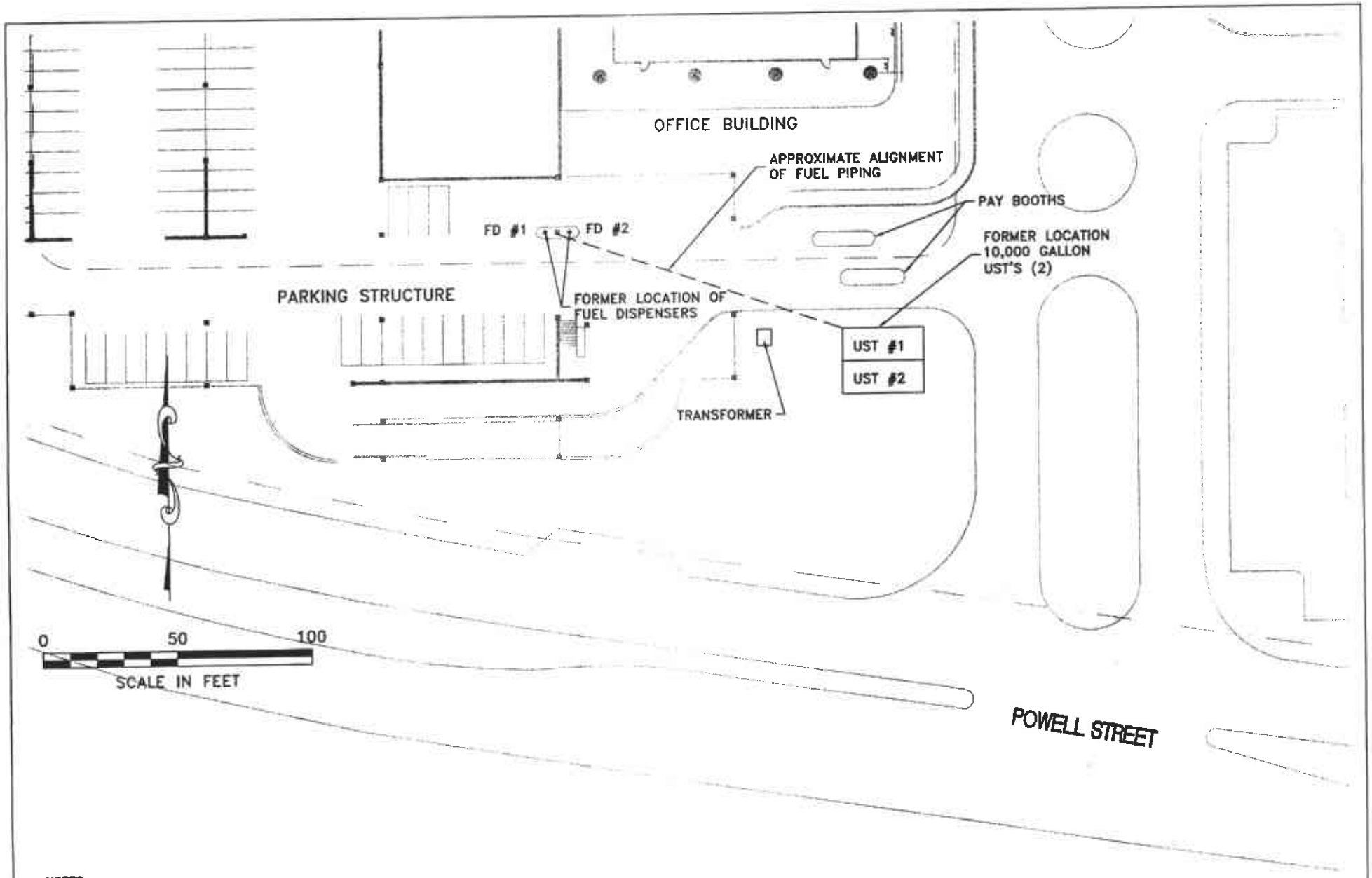
FIGURE 1

REFERENCE: USGS MAP, OAKLAND WEST QUADRANGLE
1959, PHOTOREVISED 1980.

SITE LOCATION MAP
2200 POWELL STREET, EMERYVILLE, CA

PROJECT NO. 973-7187 DRAWING NO. 5256 DATE 11/6/97 DRAWN BY DVR

Golder Associates



NOTES:

1. BASE MAP PROVIDED BY SPIEKER PROPERTIES.

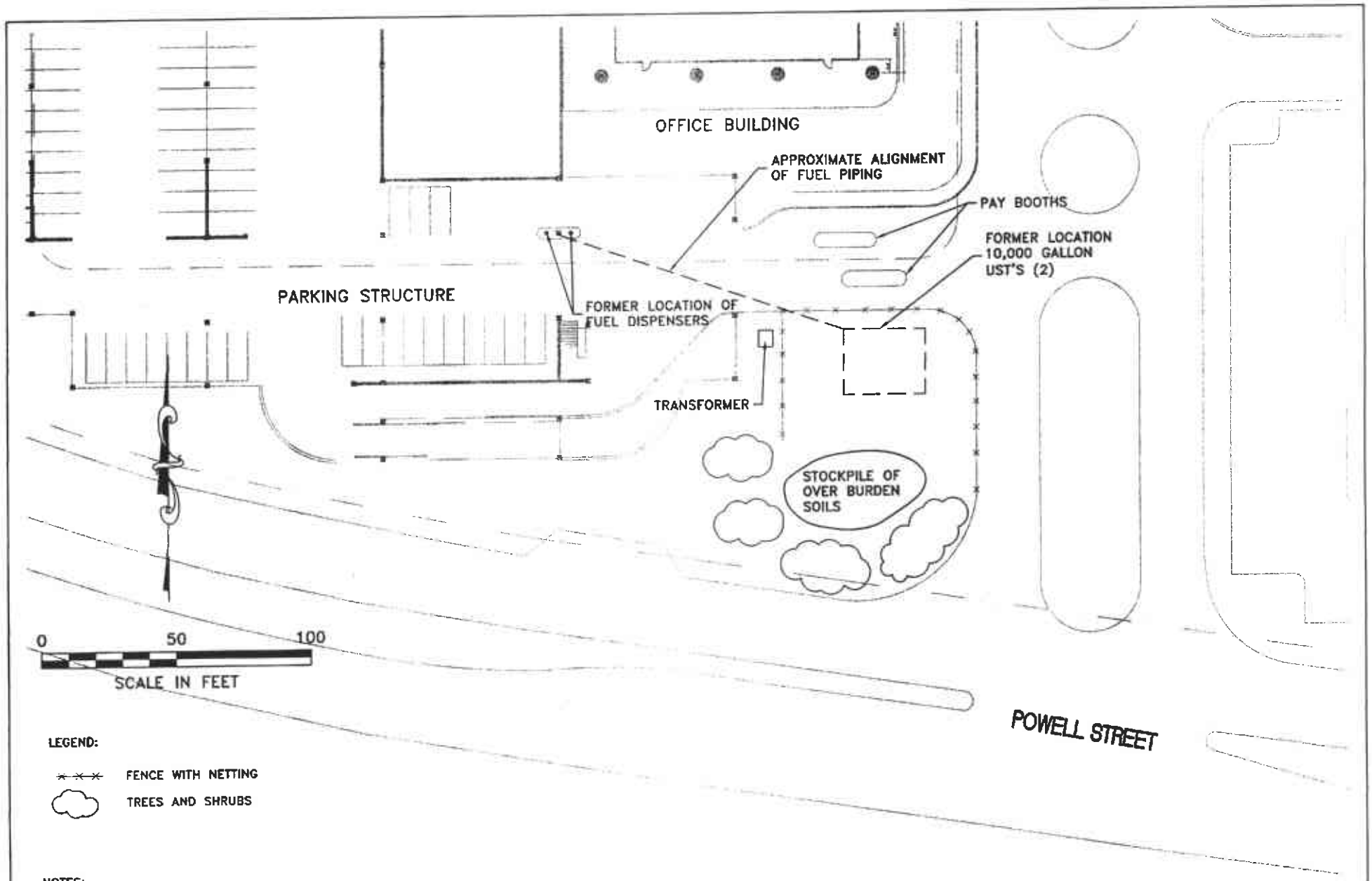
FIGURE 2

SITE PLAN

2200 POWELL STREET/EMERYVILLE/CA

Golder Associates

RAMALES | C:\1997files\9737187\Task_100\5652.dwg | 9-4-98 14:46 | xrf: NONE



NOTES:

1. BASE MAP PROVIDED BY SPIEKER PROPERTIES.
2. ALL LOCATIONS IN USTs AREA ARE APPROXIMATE.

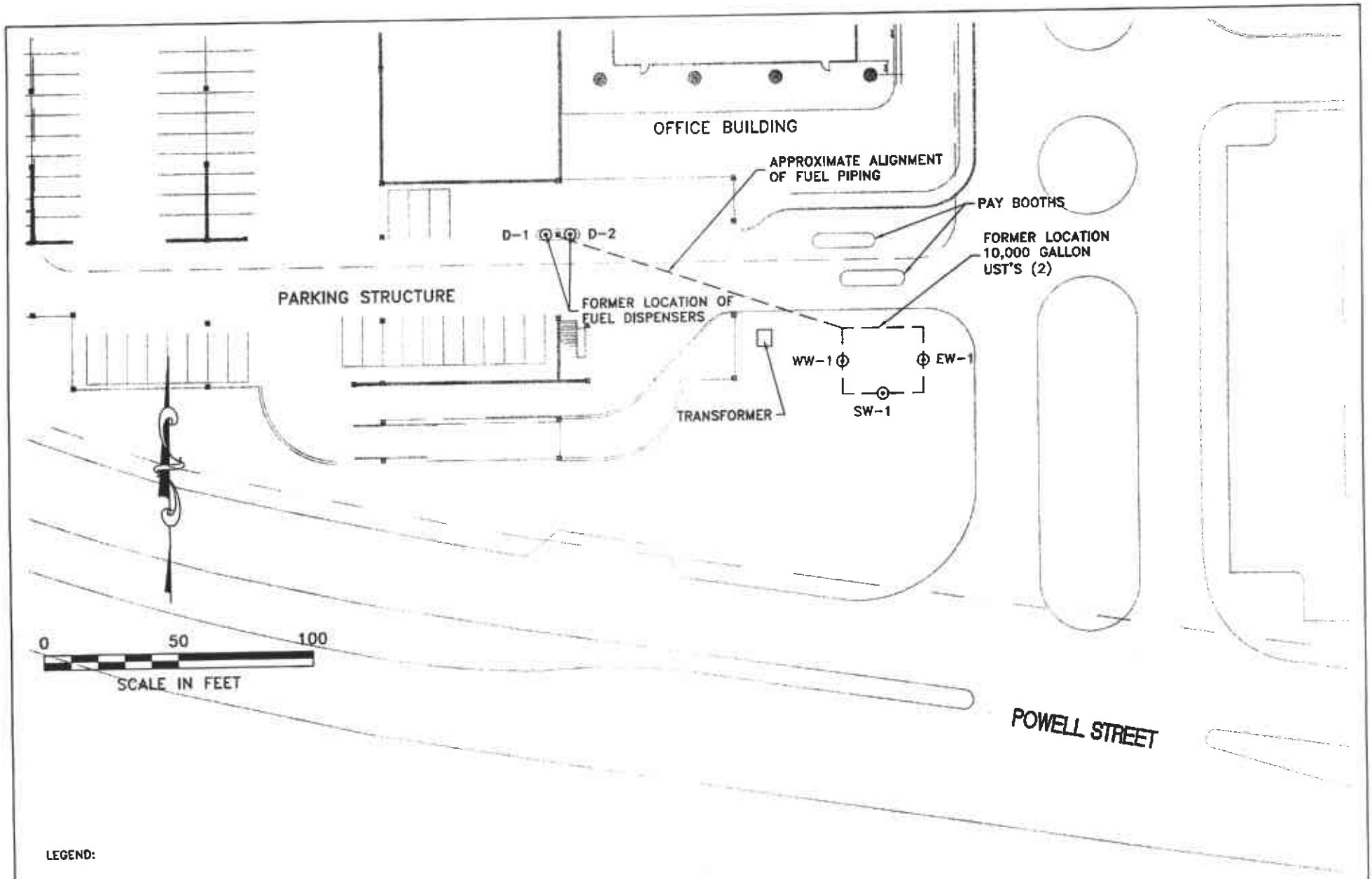
FIGURE 3

UST WORK AREA MAP

2200 POWELL STREET/EMERYVILLE/CA

Golder Associates

RAMALES | C:\1997files\9737187\Task_100\5653.dwg | 9-4-98 11:08 | xrf: NONE



LEGEND:

⊙ SOIL SAMPLE LOCATION

NOTES:

1. BASE MAP PROVIDED BY SPIEKER PROPERTIES.

FIGURE **4**

CONFIRMATION SAMPLE LOCATIONS

2200 POWELL STREET/EMERYVILLE/CA

Golder Associates

APPENDIX A

Asbestos Soil Sampling Laboratory Report

RJ Lee *Group*, Inc.

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

The Materials Characterization Specialists

July 8, 1998

Mr. Rajeen Cherwoo
Golder Associates
180 Grand Ave.
Ste. 250
Oakland, CA 94612

RE: PLM Standard Analysis for Samples as Shown on the Test Report
Job Number: AOC807048
Customer Purchase Order Number: 973-7187-100

Dear Mr. Cherwoo:

Enclosed are the results obtained from the asbestos identification for the above referenced samples. Analysis of the samples were made using the polarizing light microscope (PLM) and dispersion staining objective in accordance with guidelines set forth in the EPA Method for the Determination of Asbestos in Bulk Building Materials, U.S. EPA/600/R-93/116 (7/93 Edition).

RJ Lee Group, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne asbestos fiber analysis (TEM) and asbestos fiber analysis (PLM). RJ Lee Group's Monroeville laboratory is accredited by the American Industrial Hygiene Association for asbestos, silica and metals. The results contained herein apply only to analyzed samples.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

If you have any questions on this report or if we can be of further assistance, please feel free to call me.

Sincerely yours,

William H. Powers/hg

William H. Powers
Manager, Bulk Materials Analysis

WHP/hg

Enclosure

Test Report - Golder Associates

Attn: Rajeev Cherwoo **Project #: 973-7187-100**

Project AOC807048

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
2504150BHPL Brown And White Soil	SP-1A	-	10 %	-	-	-	-	-	-	-	-	-	90 %	7/6/98 WHP
						NFM: Qtz, Carb, Opaq, Mag, F-Spar, Clay								Non Homogeneous
2504151BHPL Brown And White Soil	SP-2A	-	15 %	-	-	-	-	2 %	-	-	-	-	83 %	7/6/98 WHP
						NFM: Qtz, Carb, Opaq, Mag, F-Spar, Clay								Non Homogeneous
2504152BHPL Brown And White Soil	SP-3A	-	5 %	-	-	-	-	3 %	-	-	-	-	92 %	7/6/98 WHP
						NFM: Qtz, Carb, Opaq, Mag, F-Spar, Clay								Non Homogeneous
2504153BHPL Brown And White Soil	SP-4A	-	5 %	-	-	-	-	5 %	-	-	-	-	90 %	7/6/98 WHP
						NFM: Qtz, Carb, Opaq, Mag, F-Spar, Clay								Non Homogeneous
2504154BHPL Brown And White Soil	SP-5A	-	1 %	-	-	-	-	4 %	-	-	-	-	95 %	7/6/98 WHP
						NFM: Qtz, Carb, Opaq, Mag, F-Spar, Clay								Non Homogeneous
2504155BHPL Brown And White Soil	SP-6A	-	1 %	-	-	-	-	1 %	-	-	-	-	98 %	7/6/98 WHP
						NFM: Qtz, Carb, Opaq, Mag, F-Spar, Clay								Non Homogeneous
2504156BHPL Brown And White Soil	SP-7A	-	1 %	-	-	-	-	1 %	-	-	-	-	98 %	7/6/98 WHP
						NFM: Qtz, Carb, Opaq, Mag, F-Spar, Clay								Non Homogeneous
2504157BHPL Brown And White Soil	SP-8A	-	1 %	-	-	-	-	5 %	-	-	-	-	94 %	7/6/98 WHP
						NFM: Qtz, Carb, Opaq, Per, Mag, F-Spar, Clay								Non Homogeneous

Samples received on: Monday, July 6, 1998

Authorized Signature William H. Powers/HR
William H. Powers, Manager-Optical

Date Tuesday, July 7, 1998

RJ Lee Group, Inc.
Headquarters

350 Hochberg Road
Monroeville, PA 15146

Phone (724) 325-1776
Fax (724) 733-1799

ACC8 104

GOLDER ASSOCIATES

CHAIN OF CUSTODY RECORD

PROJ. NO.	SITE/LOCATION
973-7187-100	EMERYVILLE WATER GATE TOWERS / SPIEKER

SAMPLERS: (Signature) Marcus Long (MARCUS LONG)

STA. NO.	DATE	TIME	SAMPLE TYPE	MEDIA	SAMPLE IDENTIFICATION	NO. OF CON-TAINERS	AMOUNT/PRESERVATIVE ASBESTOS/PLM						SEAL NO.	SEAL INTACT? (Y or N)	REMARKS (with initials)
	7-1-98	12:00	SOIL	BAG	SP-1 LITTLE STOCKPILE	1	X								$8.00 / per sample
	↓	12:05	↓	↓	SP-2 LITTLE STOCKPILE	1	X								
		12:10			SP-3 LITTLE STOCKPILE	1	X								
		12:15			SP-4 LITTLE STOCKPILE	1	X								
		12:20			SP-5 BIG STOCKPILE	1	X								
		12:25			SP-6 BIG STOCKPILE	1	X								
		12:30			SP-7 BIG STOCKPILE	1	X								
		12:35			SP-8 BIG STOCKPILE	1	X								
	↓	~~12:40~~	↓	↓											

48 HOUR TAT

DUE 7/7 A.M.

Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)	Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)
GOLDER Marcus Long	7-2-98 8:20	[illegible]			
Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)	Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)
	7/6 9:50	AT ICC [illegible]			
Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)	Date/Time	Remarks (attachments if necessary) ATTN: RAJEEV CHERWOO GOLDER ASSOCIATES 180 GRAND AVE. STE. 250 OAKLAND, CA 94612	

Steve Hunter [illegible] or RAJEEV

APPENDIX B

Air Sampling Laboratory Report

ASBESTOS AIR SPAMPLE ANALYSIS DATA

CLIENT: GOLDER ASSOCIATES
10 CHRYSTLER SUITE B
IRVINE CA, 92618

CLIENT PROJECT REFERENCE:
SPIEKER - EMERYVILLE
973-7187-100

KB PROJECT #: 9806
DATE RECEIVED: 7-9-98
DATE ANALYZED: 7-9-98

SITE ACTIVITY: OSHA MONITORING
UST REMOVAL

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE DATE	TIME/MIN/ VOLUME	DESCRIPTION LOCATION	FIBERS/ FIELDS	RESULT F/CC
1	9801174	7-7-98	120/1200	INSIDE WORK AREA	9/100	0.004
2	9801175	7-7-98	120/1200	OUTSIDE WORK AREA	6/100	0.002
3	9801176	7-7-98		FIELD BLANK	0/100	
4	9801177	7-7-98		FIELD BLANK	0/100	

Analyzed By: Kirk Bakalis
CSST# 92-0245
California

Kirk Bakalis

Note: The above results represent analytical work performed on samples collected by the client submitted to KB for analysis. All supplementary information regarding sample volume, location, etc. was provided by the client.

The US EPA recommended "Clean Air" criteria is based on a fiber concentration of 0.01 F/cc or less. The OSHA 8hr TWA permissible exposure limit for airborne asbestos is 0.1 f/cc per 29 CFR 1910.1001 and 1926.1101

Sample analysis was performed in accordance with the NIOSH 7400 method utilizing the "A" counting rules. This method identifies total fibers by Phase Contrast Microscopy using 400X magnification. This method does not distinguish between asbestos and non-asbestos fibers. All fibers with a length to diameter ratio of 3:1 or greater and a length of greater than 5 microns are counted. The NIOSH method of analysis requires a minimum of 5.5 fibers per 100 fields to be considered "detectable."

Kirk Bakalis • 1905 E. Chestnut Ave. Suite A •
Orange CA, 92867
1-562-651-2659

ASBESTOS AIR SAMPLE DATA SHEET

CLIENT Spieker Properties

PROJECT NAME Spieker-Emeryville

PROJECT NUMBER 973-7187-100

CONTRACTOR Golder / Iconoco

BFB _____
(Average value of all blanks per shift)

Record all blanks on data sheets and in sequence with other sample numbers

Analytical Method: NIOSH 7400

Collection Medium: CASSETTE Mixed cellulose ester filter	Pump Calibration 10 l/m Flowmeter	Flowmeter calibration: Bubble burette	Flowmeter # _____ Calibration Date _____

$AC = \frac{(\frac{FB}{FL} - \frac{BFB}{100})(ECA)}{(1000)(FR)(T)(MFA)}$ $LLOQ = \frac{(100\ f/mm)(ECA)}{(1000)(FR)(T)}$ MFA _____ ECA _____

SAMPLE # 1 Date collected 7-7-98 Collected by K. Roberts

Pump # 0038 Date analyzed _____ Analyzed by _____

Sample type AIR (FB/FL _____ 10% blind recount results)

Sample location INSIDE WORK AREA

Start Flow 10 l/m Stop flow 10 l/m Flow Rate 10 l/m Volume 1200 l

Start Time 6:00 Stop Time 8:00 Total Time 120 (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # 2 Date collected 7-7-98 Collected by K. Roberts

Pump # N01 Date analyzed _____ Analyzed by _____

Sample type AIR (FB/FL _____ 10% blind recount results)

Sample location OUTSIDE WORK AREA

Start Flow 10 l/m Stop flow 10 l/m Flow Rate 10 l/m Volume 1200 l

Start Time 6:05 Stop Time 8:05 Total Time 120 (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # _____ Date collected _____ Collected by _____

Pump # _____ Date analyzed _____ Analyzed by _____

Sample type _____ (FB/FL _____ 10% blind recount results)

Sample location _____

Start Flow _____ Stop flow _____ Flow Rate _____ Volume _____

Start Time _____ Stop Time _____ Total Time _____ (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # _____ Date collected _____ Collected by _____

Pump # _____ Date analyzed _____ Analyzed by _____

Sample type _____ (FB/FL _____ 10% blind recount results)

Sample location _____

Start Flow _____ Stop flow _____ Flow Rate _____ Volume _____

Start Time _____ Stop Time _____ Total Time _____ (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

ASBESTOS AIR SPAMPLE ANALYSIS DATA

CLIENT: GOLDER ASSOCIATES
10 CHRYSTLER SUITE B
IRVINE CA. 92618

CLIENT PROJECT REFERENCE:
SPIEKER PROPERTIES - EMERYVILLE
973-718-100

KB PROJECT#: 9806
DATE RECEIVED: 7-9-98
DATE ANALYZED: 7-9-98

SITE ACTIVITY: OSHA MONITORING
UST REMOVAL

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE DATE	TIME/VOLUME	DESCRIPTION LOCATION	FIBERS/ FIELDS	RESULT f/cc
5	9801178	7-8-98	240/1200	INSIDE WORK AREA	16/100	0.006
6	9801179	7-8-98	240/1200	OUTSIDE WORK AREA	12/100	0.005
7	9801180	7-8-98	120/1200	OUTSIDE WORK AREA	13/100	0.005
8	9801181	7-8-98	120/1200	INSIDE WORK AREA	10/100	0.004
9	9801182	7-8-98		FIELD BLANK	0/100	
10	9801183	7-8-98		FIELD BLANK	1/100	

Analyzed By: Kirk Bakalis
CSST# 92-0245
California

Kirk Bakalis

Note: The above results represent analytical work performed on samples collected by the client submitted to KB for analysis. All supplementary information regarding sample volume, location, etc. was provided by the client.

The US EPA recommended "Clean Air" criteria is based on a fiber concentration of 0.01 F/cc or less. The OSHA 8hr TWA permissible exposure limit for airborne asbestos is 0.1 f/cc per 29 CFR 1910.1001 and 1926.1101

Sample analysis was performed in accordance with the NIOSH 7400 method utilizing the "A" counting rules. This method identifies total fibers by Phase Contrast Microscopy using 400X magnification. This method does not distinguish between asbestos and non-asbestos fibers. All fibers with a length to diameter ratio of 3:1 or greater and a length of greater than 5 microns are counted. The NIOSH method of analysis requires a minimum of 5.5 fibers per 100 fields to be considered "detectable."

Kirk Bakalis • 1905 E. Chestnut Ave. Suite A •
Orange CA, 92867
1-562-651-2659

ASBESTOS AIR SAMPLE DATA SHEET

CLIENT Spieker Properties

PROJECT NAME Spieker - Emeryville

PROJECT NUMBER 973-7187-100

CONTRACTOR Golder / Conco

BFB _____ (Average value of all blanks per shift)

Record all blanks on data sheets and in sequence with other sample numbers

Analytical Method: NIOSH 7400

Collection Medium:	Pump Calibration	Flowmeter calibration:	Flowmeter # _____
Mixed cellulose ester filter	Flowmeter	Bubble burette	Calibration Date _____

$AC = \frac{(\frac{FB}{FL} - \frac{BFB}{100})(ECA)}{(1000)(FR)(T)(MFA)}$ $LLOQ = \frac{(100\ f/mm)(ECA)}{(1000)(FR)(T)}$ MFA _____ ECA _____

SAMPLE # 3 Date collected 7-8-98 Collected by K. Roberts

Pump # 0038 Date analyzed _____ Analyzed by _____

Sample type Air (FB/FL _____ 10% blind recount results)

Sample location INSIDE WORK AREA

Start Flow 5 l/m Stop flow 5 l/m Flow Rate 5 l/m Volume 1200

Start Time 10:15 Stop Time 14:15 Total Time 240 (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # 4 Date collected 7-8-98 Collected by K. Roberts

Pump # N01 Date analyzed _____ Analyzed by _____

Sample type Air (FB/FL _____ 10% blind recount results)

Sample location OUTSIDE WORK AREA

Start Flow 5 l/m Stop flow 5 l/m Flow Rate 5 l/m Volume 1200

Start Time 9 30 Stop Time 13 30 Total Time 240 (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # 5 Date collected 7-8-98 Collected by K. Roberts

Pump # N01 Date analyzed _____ Analyzed by _____

Sample type AIR (FB/FL _____ 10% blind recount results)

Sample location OUTSIDE WORK AREA

Start Flow 10 l/m Stop flow 10 l/m Flow Rate 10 l/m Volume 1200

Start Time 13:45 Stop Time 15:45 Total Time 120 (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # 6 Date collected 7-8-98 Collected by K. Roberts

Pump # 0038 Date analyzed _____ Analyzed by _____

Sample type AIR (FB/FL _____ 10% blind recount results)

Sample location INSIDE WORK AREA

Start Flow 10 l/m Stop flow 10 l/m Flow Rate 10 l/m Volume 1200

Start Time 14:00 Stop Time 16:00 Total Time 120 (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

ASBESTOS AIR SPAMPLE ANALYSIS DATA

CLIENT: GOLDER ASSOCIATES
10 CHRYSTLER SUITE B
IRVINE CA, 92618

CLIENT PROJECT REFERENCE:
SPIEKER - EMERYVILLE
973-7187-100

KB PROJECT #: 9806
DATE RECEIVED: 7-15-98
DATE ANALYZED: 7-15-98

SITE ACTIVITY: OSHA MONITORING
UST REMOVAL

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE DATE	TIME(Min)/ VOLUME	DESCRIPTION LOCATION	FIBERS/ FIELDS	RESULT F/CC
1	9801184	7-9-98	240/1200	OUTSIDE WORK AREA	10/100	0.004
2	9801185	7-9-98	240/1200	INSIDE WORK AREA	15/100	0.006
3	9801186	7-9-98		FIELD BLANK	0/100	
4	9801187	7-9-98		FIELD BLANK	0/100	

Analyzed By: Kirk Bakalis
CSST# 92-0245
California

Kirk Bakalis

Note: The above results represent analytical work performed on samples collected by the client submitted to KB for analysis. All supplementary information regarding sample volume, location, etc. was provided by the client.

The US EPA recommended "Clean Air" criteria is based on a fiber concentration of 0.01 F/cc or less. The OSHA 8hr TWA permissible exposure limit for airborne asbestos is 0.1 f/cc per 29 CFR 1910.1001 and 1926.1101

Sample analysis was performed in accordance with the NIOSH 7400 method utilizing the "A" counting rules. This method identifies total fibers by Phase Contrast Microscopy using 400X magnification. This method does not distinguish between asbestos and non-asbestos fibers. All fibers with a length to diameter ratio of 3:1 or greater and a length of greater than 5 microns are counted. The NIOSH method of analysis requires a minimum of 5.5 fibers per 100 fields to be considered "detectable."

Kirk Bakalis • 1905 E. Chestnut Ave. Suite A •
Orange CA, 92867
1-562-651-2659

ASBESTOS AIR SAMPLE DATA SHEET

CLIENT: Spieker Properties

PROJECT NAME: Spieker - Emeryville

PROJECT NUMBER: 973-7087-100

CONTRACTOR: Golden / Conco

BFB _____ (Average value of all blanks per shift)

Record all blanks on data sheets and in sequence with other sample numbers

Analytical Method: NIOSH 7400

Collection Medium:	Pump Calibration	Flowmeter calibration:	Flowmeter # _____
Mixed cellulose ester filter	Flowmeter	Bubble burette	Calibration Date _____

$$AC = \frac{\left(\frac{FB}{FL} - \frac{BFB}{100}\right)(ECA)}{(1000)(FR)(T)(MFA)} \qquad LLOQ = \frac{(100\ f/mm)(ECA)}{(1000)(FR)(T)}$$

MFA _____ ECA _____

SAMPLE # 7 Date collected 7-9-98 Collected by K. Roberts

Pump # N01 Date analyzed _____ Analyzed by _____

Sample type OUTSIDE WORK AREA (FB/FL _____ 10% blind recount results)

Sample location AIR

Start Flow 5 l/m Stop flow 5 l/m Flow Rate 5 l/m Volume 1200

Start Time 8:00 Stop Time 12:00 Total Time 240 (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # 8 Date collected 7-9-98 Collected by K. Roberts

Pump # 0038 Date analyzed _____ Analyzed by _____

Sample type AIR (FB/FL _____ 10% blind recount results)

Sample location INSIDE WORK AREA

Start Flow 5 l/m Stop flow 5 l/m Flow Rate 5 l/m Volume 1200

Start Time 8:00 Stop Time 12:00 Total Time 240 (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # _____ Date collected _____ Collected by _____

Pump # _____ Date analyzed _____ Analyzed by _____

Sample type _____ (FB/FL _____ 10% blind recount results)

Sample location _____

Start Flow _____ Stop flow _____ Flow Rate _____ Volume _____

Start Time _____ Stop Time _____ Total Time _____ (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

SAMPLE # _____ Date collected _____ Collected by _____

Pump # _____ Date analyzed _____ Analyzed by _____

Sample type _____ (FB/FL _____ 10% blind recount results)

Sample location _____

Start Flow _____ Stop flow _____ Flow Rate _____ Volume _____

Start Time _____ Stop Time _____ Total Time _____ (minutes)

Fibers _____ Fields _____ LOWER LIMIT OF QUANT. _____ FIBERS/CC _____

RJ LEE GROUP INC. PCM FINAL REPORT - AOC807262
ICONCO, INC.
PROJECT: 630, HMC POWELL ST. EMERYVILLE, CA. ATTN: LISA

TO: LISA
FROM: B. THOMAS
DATE: July 15, 1998
REGARDING: PCM RESULTS

Job Number: 630
Job Location: HMC POWELL ST. EMERYVILLE
Received Date: July 15, 1998

Sample Number	Client Sample Number	Total Fibers	Total Fields	Concentration (fibers/cc)	95% Upper Confidence Limit	Sample Volume (liters)
789801	7-8-98-01	45.5	100	0.0516	0.0728	432.0
789802	7-8-98-02	19.0	100	0.0296	0.0444	315.0
789803	7-9-98-03	17.0	100	0.0257	0.0390	324.0
789804	7-10-98-04	58.0	100	0.0253	0.0361	735.0
789805	7-13-98-05	13.5	100	0.0075	0.0117	882.0
789806	07-14-98 06	20.0	100	0.0182	0.0271	540.0

Volumes are verified by RJ Lee *Group*, Inc., based on the flow rate/start stop times provided by the client.

Authorized Signature
B. THOMAS, SENIOR ANALYST

Concentration reflects subtraction of blank counts if blanks are submitted. Date: July 15, 1998

Bay Area Lab RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577
(510) 567-0480 *** FAX (510) 567-0488

ANALYSIS per NIOSH 7400 Issue 2

SAMPLES WILL BE HELD FOR 90 DAYS THEN DISPOSED OF PER FEDERAL REGULATIONS.
PLEASE CONTACT RJ LEE GROUP IF SAMPLES ARE TO BE RETURNED.

Aoc 807262

PERSONNEL AIR SAMPLING LOG

Sample Taken By: Bob Waldhaus Contractor/Employer: HMC

Job: # 216

Street: Powell St. City: Emeryville, Ca.

Sample Type: AREA (PERSONNEL) (ASBESTOS) LEAD OTHER _____

ICONCO, Inc.
303 Derby Avenue, Oakland, CA 94601
Phone: (510) 261-1900 Fax: (510) 261-2459

Date Taken	Sample #	Pump #	Location Of Sample Or Worker's Name And Social Security Number	Calib. Flow Start (l/m)	Time On	Calib. Flow Finish	Time Off	Total Time Min	Total Sample Volume L	Type Of Respirator	Task Performed
7-8-98	#1	#1	Alex Villalbazo 550-49-4746	1.8	7:01A	1.8	11:00A	240	432	½ face	Work on Tanks
7-8-98	#2	#1	Alex Villalbazo 550-49-4746	1.8	11:00A	1.2	4:30P	210	315	½ face	Work on Tanks
7-9-98	#3	#1	Alex Villalbazo	1.8	7:00	1.8	10:00	180	324	½ face	Work on tanks
7-10-98	#4	#1	Alex Villalbazo	1.75	8:30A	1.75	3:30P	420	735	½ face	Work on Tanks
7-13-98	#5	#1	Bob Waldhaus 547-66-4677	1.8	7:30	1.8	3:40P	490	882	½ face	Backfill in Excavation
7-14-98	#6	#1	Bob Waldhaus 547-66-4677	1.8	7:00	1.8	12:40	300	540	½ face	Excavation cleanup

Laboratory Name: RJ Lee

APPENDIX C

Uniform Hazardous Waste Manifest

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

07 16 98

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAL000144305 | Manifest Document No. | 2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: SPIEKER PROPERTIES ATTN JEFF WHITE, 5[illegible] POWELL SUITE 325 EMERYVILLE CA 94608
4. Generator's Phone: (510) 594-5600

A. State Manifest Document Number: 98027521
B. State Generator's ID: PYXPKHQ44-FOC529

5. Transporter 1 Company Name: ECOLOGY CONTROL INDUSTRIES
6. US EPA ID Number: CAD982030173
C. State Transporter's ID
D. Transporter's Phone: 510-235-1393

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:
Romic Chemical Corporation
2081 Bay Road
East Palo Alto, CA 94303
10. US EPA ID Number: CAD009452657
G. State Facility's ID: CAD009452657
H. Facility's Phone: 650-324-1638

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 Number
a. R.Q. WASTE GASOLINE MIXTURE, 3, UN1203, PGII (D001,D018)	001	TT	00100	G	State 223; EPA/Other D001, D018
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
PETROLEUM HYDROCARBONS 70% - 100%
WATER 0% - 30%
PROFILE 205773

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
Wear appropriate protective clothing when handling.
24 Hour Emergency Telephone Number:
24 Hour Contact: Jeff White 510-594-5600 **DOT ERG# 11a) 128**

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: SPIEKER PROPERTIES Jeff White Project Director | Signature: [signature] | Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MichAel Moore | Signature: Michael Moore | Month Day Year 07 08 98

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: George Blinat | Signature: [signature] | Month Day Year 07 09 98

GENERATOR / TRANSPORTER / FACILITY

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

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
(Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (4/97)
EPA 8700—22

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAL000149059 | Manifest Document No.: 3330
2. Page 1 of 1

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

A. State Manifest Document Number: 95593330

3. Generator's Name and Mailing Address: SPIEKER PROPERITES Attn JEFF WHITE
2200 POWELL SUITE 325 EMERYVILLE CA 94608

B. State Generator's ID: P YPMHQ44-000529

4. Generator's Phone: (510) 594-5600

5. Transporter 1 Company Name: ECOLOGY CONTROL INDUSTRIES ~~Erickson, Inc.~~
6. US EPA ID Number: CAD 982030173 ~~CAD009466392~~

C. State Transporter's ID:
D. Transporter's Phone: (510) 235-1393

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:
Romic Chemical Corp.
2081 Bay Road
East Palo Alto, CA 94303

10. US EPA ID Number: CAD009452657

G. State Facility's ID:
H. Facility's Phone: (415) 324-1638

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 Number
a. R.O. Waste Gasoline Mixture, 3 UN 1203 PG II ERG #27 (D001 D018)	001	TT	01250	G	State 221; EPA/Other D001
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above:
Petroleum Hydrocarbon 70 - 100%
Water 0 - 30%
Profile 205773, 11a, D018

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

15. Special Handling Instructions and Additional Information:
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name. Jeff White & Phone (510) 594-5600

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
Spieker Properties, Jeff White Project Director	[signature]	07	09	98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
GEORGE MUNOZ	George Munoz	07	09	98

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

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

Yellow: GENERATOR RETAINS

07 15 98

State of California—Environmental Protection Agency
Form Approved OMB Nat 2050–0039 (Expires 9-30-96)
Please print or type. *Form designed for use on elite (12 pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAL000144905	35891		

3. Generator's Name and Mailing Address SPIEKER PROPERTIES ATTN JEFF WHITE 2200 POWELL SUITE 325 EMERYVILLE CA 94608 4. Generator's Phone (510) 594-5600	A. State Manifest Document Number 96835891 B. State Generator's ID PYPKHQ44-00052A
5. Transporter 1 Company Name: Ecology Control Industries 6. US EPA ID Number: CAD982030173	C. State Transporter's ID D. Transporter's Phone (510)235-1393
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 ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801 10. US EPA ID Number: CAD009466392	G. State Facility's ID CAD009466392 H. Facility's Phone 510-235-1393

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 Number
a. WASTE EMPTY STORAGE TANK Non-RCRA hazardous waste solid	001	TP	05000	P	State 512 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
QTY 1 EMPTY STORAGE TANK(S) # 23203
TANK(S) HAVE BEEN INERTED WITH
15 LBS DRY ICE PER 1000 GALLONS CAPACITY.

K. Handling Codes for Wastes Listed Above
a. 99 b. c. d.

15. Special Handling Instructions and Additional Information
Wear appropriate protective clothing when handling.
24 Hour Emergency Telephone Number: 510 234 1393
24 Hour Emergency Contact: JEFF WHITE SPIEKER PROPERTIES

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
JOHN R. WHITTIER SPIEKER PROPERTIES		07	10	98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		07	10	98

FACILITY

19. Discrepancy Indication Space
17. DRIVER SIGNED IN SECTION 18.

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
DAVID SATO	DAVE SATO	07	10	98

DO NOT WRITE BELOW THIS LINE.

TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.

DTSC 8022A (1/95)
EPA 8700—22

GENERATOR

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

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

07 15 98

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CALP00144105 | Manifest Document No. 25810 | 2. Page 1 of 1

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

3. Generator's Name and Mailing Address: SPIEKER PROPERTIES ATTN JEFF WHITE, 2100 POWELL SUITE 225 EMERYVILLE CA 94608

4. Generator's Phone (510) 594 5200

A. State Manifest Document Number 96835890

B. State Generator's ID P V(P K)H 9944 100 K 529

5. Transporter 1 Company Name: Ecology Control Industries

6. US EPA ID Number: CAD982030173

C. State Transporter's ID

D. Transporter's Phone (510)235-1393

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: ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID CAD009466392

H. Facility's Phone 510-235-1393

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 Number
a. WASTE EMPTY STORAGE TANK Non-RCRA hazardous waste solid & associated piping	001	TP	05000	P	State 512; EPA/Other NONE
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
QTY 1 EMPTY STORAGE TANK(S) # 23204
______ TANK(S) HAVE BEEN INERTED WITH
15 LBS DRY ICE PER 1000 GALLONS CAPACITY

K. Handling Codes for Wastes Listed Above
a. 01/99 b. c. d.

15. Special Handling Instructions and Additional Information
Wear appropriate protective clothing when handling.
24 Hour Emergency Telephone Number: (510) 594 5200
24 Hour Emergency Contact: [illegible] WHITE / SPIEKER PROPERTIES

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: JOHN R. WHITHER - SPIEKER PROPERTIES | Signature: [signature] | Month 07 Day 10 Year 98

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: BRIAN L. MCKINLEY ~~[illegible]~~ | Signature: Brian L. McKinley ~~[illegible]~~ | Month 07 Day 10 Year 98

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: DAVID SATO | Signature: DAVE SATO | Month 07 Day 10 Year 98

GENERATOR / TRANSPORTER / FACILITY

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

96835890

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS. Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.

DTSC 8022A (1/95)
EPA 8700—22

APPENDIX D

Confirmation Sampling Laboratory Report

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Golder Associates
180 Grand Ave
Suite 250
Oakland, CA 94612

Date: 28-JUL-98
Lab Job Number: 134484
Project ID: 973-7187
Location: Spieker Properties

Reviewed by: _____

Reviewed by: _____

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
134484-001	D-2	42160	07/10/98	07/22/98	07/22/98	
134484-002	D-1	42160	07/10/98	07/22/98	07/22/98	
134484-003	EW-1	42129	07/10/98	07/21/98	07/21/98	
134484-004	SW-1	42129	07/10/98	07/21/98	07/21/98	

Matrix: Soil

Analyte	Units	134484-001	134484-002	134484-003	134484-004
Diln Fac:		5000	1	1	1
Gasoline C7-C12	mg/Kg	27000	<1	5.5	<1
Surrogate					
Trifluorotoluene	%REC	117	108	104	96
Bromofluorobenzene	%REC	141	98	131	117

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
134484-001	D-2	42160	07/10/98	07/22/98	07/22/98	
134484-002	D-1	42160	07/10/98	07/22/98	07/22/98	
134484-003	EW-1	42129	07/10/98	07/21/98	07/21/98	
134484-004	SW-1	42129	07/10/98	07/21/98	07/21/98	

Matrix: Soil

Analyte Diln Fac:	Units	134484-001 5000	134484-002 1	134484-003 1	134484-004 1
Benzene	ug/Kg	<25000	<5	57	<5
Toluene	ug/Kg	160000	<5	470	<5
Ethylbenzene	ug/Kg	130000	<5	150	<5
m,p-Xylenes	ug/Kg	1300000	<5	1000	<5
o-Xylene	ug/Kg	610000	<5	960	<5
Surrogate					
Trifluorotoluene	%REC	76	79	107	106
Bromofluorobenzene	%REC	89	78	138	122

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
134484-005	WW-1	42129	07/10/98	07/21/98	07/21/98	

Matrix: Soil

Analyte	Units	134484-005
Diln Fac:		1
Gasoline C7-C12	mg/Kg	<1
Surrogate		
Trifluorotoluene	%REC	98
Bromofluorobenzene	%REC	123

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
134484-005	WW-1	42129	07/10/98	07/21/98	07/21/98	

Matrix: Soil

Analyte	Units	134484-005
Diln Fac:		1
Benzene	ug/Kg	<5
Toluene	ug/Kg	<5
Ethylbenzene	ug/Kg	<5
m,p-Xylenes	ug/Kg	<5
o-Xylene	ug/Kg	<5
Surrogate		
Trifluorotoluene	%REC	101
Bromofluorobenzene	%REC	129

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins Ltd.

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 42084
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/17/98
Analysis Date: 07/17/98

MB Lab ID: QC75154

Analyte	Result
Gasoline C7-C12	<1.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	83	53-157
Bromofluorobenzene	113	53-157

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 42084
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/17/98
Analysis Date: 07/17/98

MB Lab ID: QC75154

Analyte	Result
Benzene	<5.0
Toluene	<5.0
Ethylbenzene	<5.0
m,p-Xylenes	<5.0
o-Xylene	<5.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	83	53-126
Bromofluorobenzene	120	35-144

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 42129
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/20/98
Analysis Date: 07/20/98

MB Lab ID: QC75318

Analyte	Result
Gasoline C7-C12	<1.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	96	53-157
Bromofluorobenzene	107	53-157

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins Ltd.

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 42129
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/20/98
Analysis Date: 07/20/98

MB Lab ID: QC75318

Analyte	Result
Benzene	<5.0
Toluene	<5.0
Ethylbenzene	<5.0
m,p-Xylenes	<5.0
o-Xylene	<5.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	108	53-126
Bromofluorobenzene	111	35-144

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 42160
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/21/98
Analysis Date: 07/21/98

MB Lab ID: QC75436

Analyte	Result
Gasoline C7-C12	<1.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	104	53-157
Bromofluorobenzene	94	53-157

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Soil
Batch#: 42160
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/21/98
Analysis Date: 07/21/98

MB Lab ID: QC75436

Analyte	Result
Benzene	<5.0
Toluene	<5.0
Ethylbenzene	<5.0
m,p-Xylenes	<5.0
o-Xylene	<5.0

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	76	53-126
Bromofluorobenzene	75	35-144

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins, Ltd.

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 42084
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/17/98
Analysis Date: 07/17/98

LCS Lab ID: QC75153

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	9.26	10	93	78-120

Surrogate	%Rec	Limits
Trifluorotoluene	90	53-157
Bromofluorobenzene	139	53-157

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins Ltd.

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 42129
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/20/98
Analysis Date: 07/20/98

LCS Lab ID: QC75315

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	10.23	10	102	78-120

Surrogate	%Rec	Limits
Trifluorotoluene	107	53-157
Bromofluorobenzene	148	53-157

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins Ltd.

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 42160
Units: mg/Kg
Diln Fac: 1

Prep Date: 07/21/98
Analysis Date: 07/21/98

LCS Lab ID: QC75435

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	10.49	10	105	78-120

Surrogate	%Rec	Limits
Trifluorotoluene	135	53-157
Bromofluorobenzene	102	53-157

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins, Ltd.

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 42160
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/22/98
Analysis Date: 07/22/98

LCS Lab ID: QC75539

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	84.23	100	84	69-118
Toluene	95.21	100	95	73-118
Ethylbenzene	93.39	100	93	68-124
m,p-Xylenes	194.8	100	97	67-124
o-Xylene	99.28	100	99	73-127

Surrogate	%Rec	Limits
Trifluorotoluene	80	53-126
Bromofluorobenzene	80	35-144

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 5 outside limits

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins, Ltd.

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Soil
Batch#: 42084
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/17/98
Analysis Date: 07/17/98

BS Lab ID: QC75155

Analyte	Spike Added	BS	%Rec #	Limits
Benzene	100	88.33	88	69-118
Toluene	100	95.52	96	73-118
Ethylbenzene	100	92.75	93	68-124
m,p-Xylenes	200	197.2	99	67-124
o-Xylene	100	92.35	92	73-127

Surrogate	%Rec	Limits
Trifluorotoluene	83	53-126
Bromofluorobenzene	122	35-144

BSD Lab ID: QC75156

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Benzene	100	90.35	90	69-118	2	14
Toluene	100	98.07	98	73-118	3	21
Ethylbenzene	100	95.14	95	68-124	3	22
m,p-Xylenes	200	201.4	101	67-124	2	22
o-Xylene	100	94.6	95	73-127	2	26

Surrogate	%Rec	Limits
Trifluorotoluene	86	53-126
Bromofluorobenzene	128	35-144

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins, Ltd.

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Soil
Batch#: 42129
Units: ug/Kg
Diln Fac: 1

Prep Date: 07/20/98
Analysis Date: 07/20/98

BS Lab ID: QC75316

Analyte	Spike Added	BS	%Rec #	Limits
Benzene	100	89.62	90	69-118
Toluene	100	104.2	104	73-118
Ethylbenzene	100	92.9	93	68-124
m,p-Xylenes	200	214.2	107	67-124
o-Xylene	100	103.7	104	73-127

Surrogate	%Rec	Limits
Trifluorotoluene	110	53-126
Bromofluorobenzene	120	35-144

BSD Lab ID: QC75317

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Benzene	100	87.37	87	69-118	3	14
Toluene	100	100.2	100	73-118	4	21
Ethylbenzene	100	91.77	92	68-124	1	22
m,p-Xylenes	200	212	106	67-124	1	22
o-Xylene	100	103.9	104	73-127	0	26

Surrogate	%Rec	Limits
Trifluorotoluene	109	53-126
Bromofluorobenzene	127	35-144

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins Ltd.

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 134513-001
Matrix: Soil
Batch#: 42129
Units: mg/Kg
Diln Fac: 1

Sample Date: 07/14/98
Received Date: 07/14/98
Prep Date: 07/20/98
Analysis Date: 07/20/98

MS Lab ID: QC75319

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	10	<1	6.84	68	38-132

Surrogate	%Rec	Limits
Trifluorotoluene	107	53-157
Bromofluorobenzene	139	53-157

MSD Lab ID: QC75320

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	10	8.35	84	38-132	20	26

Surrogate	%Rec	Limits
Trifluorotoluene	109	53-157
Bromofluorobenzene	145	53-157

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins Ltd.

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 134597-002
Matrix: Soil
Batch#: 42160
Units: mg/Kg dry weight
Diln Fac: 1

Sample Date: 07/13/98
Received Date: 07/17/98
Prep Date: 07/21/98
Analysis Date: 07/21/98
Moisture: 4%

MS Lab ID: QC75437

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	10.42	<1.042	9.573	92	38-132

Surrogate	%Rec	Limits
Trifluorotoluene	132	53-157
Bromofluorobenzene	105	53-157

MSD Lab ID: QC75438

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	10.42	9.406	90	38-132	2	26

Surrogate	%Rec	Limits
Trifluorotoluene	137	53-157
Bromofluorobenzene	108	53-157

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
134484-006	W-1	42043	07/10/98	07/16/98	07/16/98	

Matrix: Water

Analyte	Units	134484-006
Diln Fac:		50
Gasoline C7-C12	ug/L	30000
Surrogate		
Trifluorotoluene	%REC	114
Bromofluorobenzene	%REC	113

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
134484-006	W-1	42043	07/10/98	07/16/98	07/16/98	

Matrix: Water

Analyte	Units	134484-006
Diln Fac:		50
Benzene	ug/L	1000
Toluene	ug/L	6900
Ethylbenzene	ug/L	380
m,p-Xylenes	ug/L	3000
o-Xylene	ug/L	1500
Surrogate		
Trifluorotoluene	%REC	85
Bromofluorobenzene	%REC	90

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 42043
Units: ug/L
Diln Fac: 1

Prep Date: 07/16/98
Analysis Date: 07/16/98

MB Lab ID: QC75001

Analyte	Result
Gasoline C7-C12	<50

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	109	59-162
Bromofluorobenzene	100	59-162

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins, Ltd.

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 42043
Units: ug/L
Diln Fac: 1

Prep Date: 07/16/98
Analysis Date: 07/16/98

MB Lab ID: QC75001

Analyte	Result
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	80	53-124
Bromofluorobenzene	82	41-142

Lab #: 134484

BATCH QC REPORT

Curtis & Tompkins, Ltd.

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
Batch#: 42043
Units: ug/L
Diln Fac: 1

Prep Date: 07/16/98
Analysis Date: 07/16/98

LCS Lab ID: QC75000

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	2008	2000	100	80-119

Surrogate	%Rec	Limits
Trifluorotoluene	139	59-162
Bromofluorobenzene	105	59-162

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

BTXE

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8020A
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 42043
Units: ug/L
Diln Fac: 1

Prep Date: 07/16/98
Analysis Date: 07/16/98

BS Lab ID: QC75002

Analyte	Spike Added	BS	%Rec #	Limits
Benzene	20	16.83	84	69-109
Toluene	20	19.45	97	72-116
Ethylbenzene	20	18.64	93	67-120
m,p-Xylenes	40	39.37	98	69-117
o-Xylene	20	19.74	99	75-122

Surrogate	%Rec	Limits
Trifluorotoluene	83	53-124
Bromofluorobenzene	83	41-142

BSD Lab ID: QC75003

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Benzene	20	17.34	87	69-109	3	11
Toluene	20	19.45	97	72-116	0	11
Ethylbenzene	20	18.97	95	67-120	2	12
m,p-Xylenes	40	39.99	100	69-117	2	11
o-Xylene	20	20.12	101	75-122	2	12

Surrogate	%Rec	Limits
Trifluorotoluene	82	53-124
Bromofluorobenzene	83	41-142

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

TVH-Total Volatile Hydrocarbons

Client: Golder Associates
Project#: 973-7187
Location: Spieker Properties

Analysis Method: EPA 8015M
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 134504-008
Matrix: Water
Batch#: 42043
Units: ug/L
Diln Fac: 1

Sample Date: 07/09/98
Received Date: 07/10/98
Prep Date: 07/16/98
Analysis Date: 07/16/98

MS Lab ID: QC75004

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	2000	<50	2114	106	71-131

Surrogate	%Rec	Limits
Trifluorotoluene	154	59-162
Bromofluorobenzene	121	59-162

MSD Lab ID: QC75005

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	2000	2096	105	71-131	1	26

Surrogate	%Rec	Limits
Trifluorotoluene	153	59-162
Bromofluorobenzene	121	59-162

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

DATE REPORTED: 07/27/98

CLIENT: Golder Associates
PROJECT ID: 973-7187
LOCATION: Spieker Properties
MATRIX: Soil

Metals Analytical Report

				Lead					
Sample ID	Lab ID	Sample Date	Receive Date	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
D-2	134484-001	07/10/98	07/10/98	31	0.15	1	42106	EPA 6010A	07/22/98
D-1	134484-002	07/10/98	07/10/98	7.4	0.14	1	42106	EPA 6010A	07/22/98
EW-1	134484-003	07/10/98	07/10/98	67	0.14	1	42106	EPA 6010A	07/22/98
SW-1	134484-004	07/10/98	07/10/98	68	0.15	1	42106	EPA 6010A	07/22/98
WW-1	134484-005	07/10/98	07/10/98	42	0.14	1	42106	EPA 6010A	07/22/98

Curtis & Tompkins, Ltd.

Curtis & Tompkins, Ltd.

CLIENT: Golder Associates
JOB NUMBER: 134484

DATE REPORTED: 07/27/98

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	IDF	QC Batch	Method	Analysis Date
Lead	ND	0.15	mg/Kg	1	42106	EPA 6010A	07/22/98

ND = Not Detected at or above reporting limit

Curtis & Tompkins, Ltd.

CLIENT: Golder Associates
JOB NUMBER: 134484

DATE REPORTED: 07/27/98

BATCH QC REPORT
LABORATORY CONTROL SAMPLE

Compound	Spike Amt	Result	Units	% Rec.	QC Batch	Method	Analysis Date
Lead	25	21.9	mg/Kg	88	42106	EPA 6010A	07/22/98

CHAIN OF CUSTODY RECORD

PROJ. NO. 973-7187

SITE/LOCATION SPIEKER PROPERTIES
2200 POWELL STREET
EMERYVILLE, CA

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	SAMPLE TYPE	MEDIA	SAMPLE IDENTIFICATION	NO. OF CONTAINERS	AMOUNT/ PRESERVATIVE	TPH-G / 8015M	BTEX / 8020	LEAD				SEAL NO.	SEAL INTACT? (Y or N)	REMARKS (with initials)
-1	7/10/98	10^00 AM	GRAB	SOIL	D-2	1		X	X	X						
-2		10^05 AM	GRAB	SOIL	D-1	1		X	X	X						
-3		1^15 PM	GRAB	SOIL	EW-1	1		X	X	X						
-4		1^20 PM	GRAB	SOIL	SW-1	1		X	X	X						
-5		1^25 PM	GRAB	SOIL	WW-1	1		X	X	X						
-6		1^30 PM	GRAB	WATER	W-1	4		X	X							

Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)
Raglew Cherwood	07/10/98 2^10 PM	

Relinquished by: (Signature/Firm)	Date/Time	Received by: (Signature/Firm)

Date/Time

Remarks (attachments if necessary)
RESULTS TO
RAJLEW CHERWOOD
GOLDER ASSOCIATES
180 GRAND AVENUE, SUITE 250
OAKLAND, CA 94562