

Harding Lawson Associates



October 2, 1992

Client No. 20368  
Proposal No. 20920-92.1

Utility Trailer Manufacturing Company  
P.O. Box 1299  
City of Industry, California 91749

Attention: Mr. Bob Dixon

Gentlemen:

**Fee Estimate -  
Site Assessment  
Utility Trailer Manufacturing Company  
17300 East Chestnut Street  
City of Industry, California**

## INTRODUCTION

Harding Lawson Associates (HLA) is pleased to submit this proposal to conduct a site assessment at Utility Trailer Manufacturing Company (UTM), located in the City of Industry, California. This project is intended to assist UTM's counsel in its defense against groundwater investigation and Superfund claims of the Regional Water Quality Control Board (RWQCB) and the Environmental Protection Agency.

The proposed site assessment was presented to UTM and the RWQCB in HLA's Workplan, Workplan Addendum, and Revised Cone Penetrometer (CPT) Location Map, dated June 2, August 13, and September 10, 1992, respectively. Based on review of these documents, the RWQCB has requested modifications to the proposed scope-of-work in a letter to Mr. Bob Dixon of UTM, dated September 28, 1992. The requested modifications have been included in this fee estimate.

## SCOPE OF WORK

The proposed scope of work will include three tasks: project planning and management, a field investigation, and preparation of a report summarizing our findings and a workplan for next phase of the investigation.

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### Task 1 - Project Planning and Management

Job progress and budget status will be monitored to assist completion of authorized tasks within approved budget and time constraints. Project management activities also will include the scheduling of field work, selection of and coordination with subcontractors, and communications with the client and appropriate regulatory agencies.

### Task 2 - Field Investigation

The field investigation will include underground utility clearance, CPT and Hydropunch® sampling, the drilling and sampling of selected soil borings, and the conversion of the borings to soil-gas observation wells.

Underground Utility Clearance - Underground utility maps supplied by UTM will be reviewed, and Underground Service Alert will be notified prior to conducting field work. Seventeen CPT/soil boring locations will be cleared for utilities using geophysical techniques.

Cone Penetrometer Tests/Hydropunch® Sampling - Twelve CPTs will be conducted at the locations shown on Plate 1. The work will be conducted in general accordance with American Society of Testing and Materials (ASTM) Standard D344-86. Each test will consist of pushing an electric friction cone probe into the soil while recording the resulting penetration resistance. The probes will be pushed into the ground by hydraulic rams attached to a 20-ton truck. Measurements of soil-bearing resistance at the cone tip, soil frictional resistance along the cylindrical friction sleeve, probe inclination, and pore water pressure will be recorded.

To provide continuous stratigraphic information in the unsaturated zone, five of the CPTs will be pushed into the soil until groundwater is encountered (approximately 25 feet below ground surface [bgs]) or until refusal occurs. To additionally characterize the stratigraphy and geometry of the uppermost saturated zone, the other seven CPTs will be pushed to approximate depths of 60 feet bgs or until refusal occurs. If possible, groundwater samples will be collected at the seven deep CPT/locations using a Hydropunch® sampler. The collected samples will be analyzed for VOCs using EPA Method 601.

Soil Borings/Well Installation - Four soil borings will be drilled and sampled at the locations shown on Plate 1. Three of the borings will be drilled until groundwater is encountered with a truck-mounted auger drill rig equipped with 10-inch-outer-diameter hollow-stem augers. The other boring will be drilled to an approximate depth of 60 feet or until refusal occurs. Soil samples will be collected continuously using a Sprague and Henwood 2.4-inch-diameter drive sampler (or equivalent) lined with brass tubes. The lowermost brass tube from each 18-inch sample interval will be covered on both ends with Teflon®-lined plastic caps, labeled, and immediately placed in an ice-chilled cooler. The augers will be cleaned with a high-pressure, hot-water wash prior to each

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use. The soil sampling equipment will be washed with a Liquinox solution and rinsed with potable water prior to each use.

An HLA geologist will supervise drilling activities, monitor the soil for organic vapors using a flame ionization detector (FID), log the borings using the Unified Soil Classification System (USCS), and collect soil samples. The FID will be factory calibrated prior to conducting field work and will undergo daily calibration checks using a methane standard. Drill cuttings and decontamination fluids will be contained in 55-gallon Department of Transportation-approved drums, which will be labeled and remain onsite.

At each boring, one soil sample for each 5 feet of unsaturated soil encountered will be selected for chemical analysis. In general, samples collected directly above the saturated zone and samples with the highest field FID readings will be selected for analysis. Selected soil samples will be submitted to a mobile laboratory licensed by the State of California to conduct the required analyses. All samples will be analyzed for volatile organic compounds (VOCs) using EPA Method 8010 and for total recoverable petroleum hydrocarbons (TRPH) using EPA Method 418.1. Two samples from each boring will be submitted to a stationary laboratory and analyzed for total organic carbon using EPA Method 415.1. A standard 10-day turnaround time will be used for this analysis.

Two soil samples from each boring will be submitted for physical analyses. The moisture content and dry density will be determined using ASTM Standard D-2216. The particle size and hydraulic conductivity of the samples will be determined using ASTM Standards D-422 and D5084-90, respectively. Gas permeability values for the samples will be calculated from the laboratory-derived hydraulic conductivities.

Small-diameter, multi-level soil-gas observation wells will be installed in each soil boring. The number and vertical placement of these wells will depend on the site conditions encountered. Discrete permeable zones will be targeted for well installation. Depending on the conditions encountered during drilling, two to three discrete-depth soil-gas observation wells will be installed in each boring.

Each soil-gas probe will consist of a 1-foot length of slotted 1.25-inch-diameter PVC casing, capped at the bottom, and connected on the top to a 0.25-inch-diameter steel access pipe that extends to the ground surface. All threaded fittings will be wrapped with Teflon<sup>®</sup> tape prior to fitting and then tightened until snug to provide an airtight coupling. Each soil-gas probe will be fitted with a petcock valve at the surface. Following borehole completion and placement of a 3- to 35-foot-thick lower borehole bentonite-chip seal, the deepest probe will be lowered through the hollow-stem augers to the top of the lower seal. The annulus will be backfilled with filter sand (Monterey No. 3) to 1 foot above the top of the probe screen. Approximately 2 feet of bentonite chips will then be placed on top of the filter sand and hydrated with potable water. Above the bentonite chips, a layer of bentonite-cement grout will be tremied into place to a depth of approximately 0.5

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foot below the base of the next probe's screened interval. After the grout has set for approximately one-half hour, a 0.5-foot-layer of bentonite pellets will be placed above the grout and hydrated with potable water. The next probe will then be lowered through the augers into place, and the annulus will be backfilled with Monterey No. 3 sand to 1 foot above the top of the probe's screen.

The remaining probes will be installed as discussed above. The probes will be completed below grade in a 10-inch-diameter traffic-rated well box set in a concrete pad.

### Task 3 - Report and Workplan Preparation

Upon completion of the field investigation, a report will be prepared discussing the scope of work completed and investigative results. Field activities will be described, and the data collected during the investigation will be presented, including tabulated analytical data, geological cross sections, and maps depicting well and CPT locations. The report will be reviewed in-house for quality assurance/quality control prior to distribution and will be signed by a California-registered geologist or professional engineer.

Based on the data collected during the previous soil-gas survey and the proposed field investigation, a workplan will be prepared describing proposed additional assessment as described in HLA's June 2, 1992, workplan. The proposed workplan will present a detailed scope of work, methodology, analytical procedures, and sampling locations for any necessary additional work.

### FEE ESTIMATE

The work will be conducted in accordance with the terms and conditions set forth in the environmental consulting agreement between UTM and HLA, dated February 20, 1991. Charges will be made on a time-and-expense basis, not to exceed the estimated fee of \$46,930 without additional authorization, in accordance with the attached HLA Schedule of Charges. The fee estimate to complete the proposed scope of work is presented in Table 1. Work will be started upon receipt of a signed copy of the attached Work Authorization Form.

The scope of work does not include the disposal of soil cuttings and decontamination water that will be generated during the field investigations. A separate fee estimate will be submitted to UTM for these costs after the investigation is complete and the quantity and type (hazardous or nonhazardous) of wastes is known.

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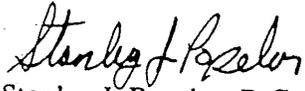
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## CLOSURE

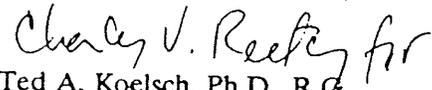
We appreciate the opportunity to present this proposal for site assessment activities at UTM in the City of Industry, California. If you have any questions, please contact either of the undersigned.

Very truly yours,

HARDING LAWSON ASSOCIATES



Stanley J. Popelar, R.G.  
Project Geologist



Ted A. Koelsch, Ph.D., R.G.  
Principal Hydrogeologist

SJP/TAK/lf/da  
92UTM045.fes

Attachment: Table 1 - Detailed Fee Estimate  
Plate 1 - Site Plan  
Schedule of Charges  
Work Authorization Form

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Table 1. Detailed Fee Estimate

Task 1 - Project Management

HLA Labor

Principal Hydrogeologist	2 hours @ \$130/hr	\$ 260
Project Geologist	18 hours @ \$77/hr	1,386
Project Coordinator	10 hours @ \$54/hr	540
Communication & Reproduction (2% of HLA Labor)		<u>44</u>

Total Task 1: \$ 2,230

Task 2 - Field Investigation

Underground Utility Clearance

HLA Labor

Project Geologist	8 hours @ \$77/hr	\$ <u>616</u>
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Subtotal: \$ 616

HLA Costs

Truck	1 day @ \$64/day	\$ 64
Roll-a-Tape	1 day @ \$5/day	5
Miscellaneous Supplies		<u>50</u>

Subtotal: \$ 119

Outside Services

Utility Locator (clear 16 locations)		\$ 1,110
15% Markup		<u>166</u>

Subtotal: \$ 1,276

Total Utility Clearance: \$ 2,011

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Table 1. Detailed Fee Estimate (continued)

Soil Borings/Well Installation

<u>HLA Labor</u>		
Project Geologist	33 hours @ \$77/hr	\$ <u>2,541</u>
	Subtotal:	\$ 2,541
<u>HLA Costs</u>		
HLA Truck	2 days @ \$64/day	\$ 128
FID	2 days @ \$125/day	250
Core Boxes	18 each @ \$7/ea	126
Drill Kit	2 days @ \$85/day	170
Brass Tubes	80 tubes @ \$3/ea	240
Cooler		15
Roll-a-Tape	2 days @ \$5/day	10
Decon. Kit	2 days @ \$5/day	10
Miscellaneous Supplies		<u>50</u>
	Subtotal:	\$ 999
<u>Outside Services</u>		
Concrete Coring		\$ 280
Well Permits		444
Driller		
Mob/Demob		600
Soil Borings/Well Installation	4 each @ \$1,175/ea	4,700
Drilling in Saturated Zone	35 feet @ \$20/ft	700
Drums	12 each @ \$45/ea	540
Mobile Laboratory		
EPA Methods 8010, 418.1	2-8/hr days @ \$1,500/day	3,000
Stationary Laboratory		
EPA Method 415.1 (10-days turnaround)	8 each @ \$40/ea	1,320
15% Markup		<u>1,738</u>
	Subtotal:	\$13,322

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Table 1. Detailed Fee Estimate (continued)

<u>HLA Testing Services</u>			
Particle Size ASTM D-422	9 each @ \$100/ea	\$	900
Moisture Content/Dry Density ASTM D-1216 & Hydraulic Conductivity ASTM D-5084-90	9 each @ \$250/ea		<u>2,250</u>
	Subtotal:	\$	<u>3,150</u>
	Total Soil Borings/Well Installation:		\$20,012
<u>Cone Penetrometer Tests/Hydropunch® Sampling</u>			
<u>HLA Labor</u>			
Project Geologist	2 hours @ \$77/hr	\$	154
Staff Geologist	38 hours @ \$63/hr		<u>2,394</u>
	Subtotal:	\$	2,548
<u>HLA Costs</u>			
Truck	3 days @ \$64/day	\$	192
Roll-a-Tape	3 days @ \$5/day		15
Cooler			15
Miscellaneous Supplies			<u>50</u>
	Subtotal:	\$	272
<u>Outside Costs</u>			
Concrete Coring		\$	378
Permits			1,332
CPT Subcontractor			400
Mob/DeMob			
Resistivity Piezocone	545 feet @ \$6.75/ft		3,679
Grouting			
Deep Penetrations	420 feet @ \$3/ft		1,260
Shallow Penetrations	125 feet @ \$1/ft		125
Hydropunch® Sampling	7 each @ \$250/ea		1,750

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Table 1. Detailed Fee Estimate (continued)

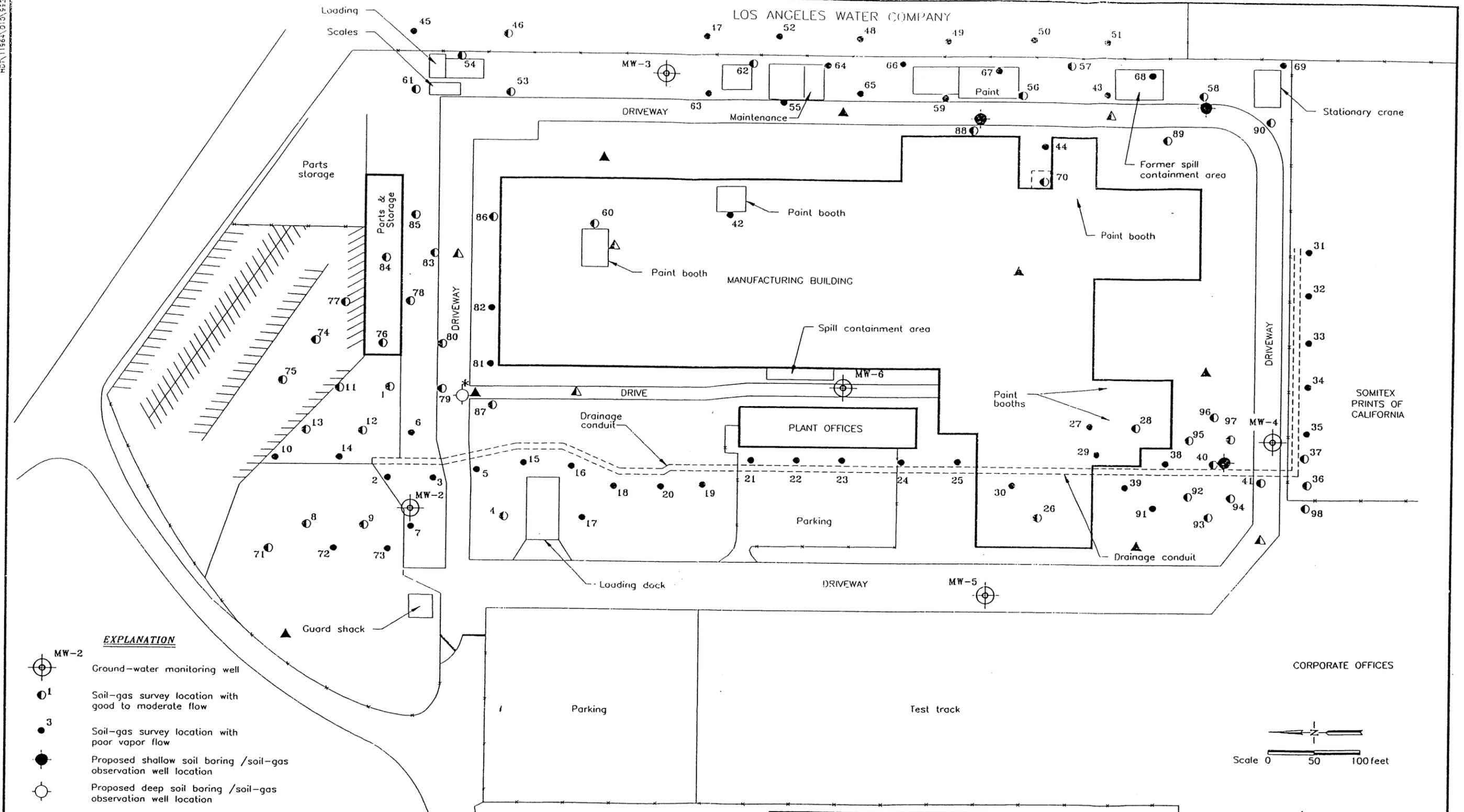
Analytical Laboratory		
EPA Methods 601 and 602	8 each @ \$220/ea	1,540
15% Markup		<u>1,570</u>
	Subtotal:	<u>\$12,034</u>
	Total CPT/Hydropunch®:	\$14,854
	Total Task 2:	\$36,877

Task 3 - Assessment Report and Workplan Preparation

<u>HLA Labor</u>		
Principal Hydrogeologist	10 hours @ \$130/hr	\$ 1,300
Project Geologist	60 hours @ \$77/hr	4,620
Staff Geologist	10 hours @ \$63/hr	630
Drafting	8 hours @ \$54/hr	432
Word Processor	6 hours @ \$50/hr	300
Technical Editor	4 hours @ \$54/hr	216
Clerical	4 hours @ \$43/hr	172
Communication & Reproduction (2% of HLA Labor)		<u>153</u>
	Total Task 3:	<u>\$ 7,823</u>
	Total Tasks 1 through 3:	\$46,930

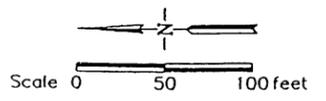
MDA 11964-D13-955E

# LOS ANGELES WATER COMPANY



### EXPLANATION

- MW-2 Ground-water monitoring well
- 1 Soil-gas survey location with good to moderate flow
- 3 Soil-gas survey location with poor vapor flow
- Proposed shallow soil boring /soil-gas observation well location
- Proposed deep soil boring /soil-gas observation well location
- Proposed shallow cone penetrometer test location
- Proposed deep cone penetrometer test location/hydropunch sampling location
- \* Revised location/depth of penetration



**Harding Lawson Associates**  
Engineering and Environmental Services

**SITE PLAN**  
Utility Trailer Manufacturing Company  
City of Industry, California

PLATE

# 1

DRAWN JTL/LJH	PROJECT-TASK NUMBER 20920-92.1	APPROVED SP	DATE 9/92	REVISED	DATE
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UTM 002644

SCHEDULE OF CHARGES Effective 6/1/91

Professional Services	Staff Engineer and Scientist	\$60.00/hour
	Project Engineer and Scientist	\$72.00/hour
	Senior Engineer and Scientist	\$90.00/hour
	Associate Engineer and Scientist	\$105.00/hour
	Principal Engineer and Scientist	\$125.00/hour
	Consulting Vice President	\$150.00/hour
Technical Services	Clerical	\$40.00/hour
	Technical Word Processor	\$47.00/hour
	Drafter/CADD Operator	\$50.00/hour
	Project Administrator/Project Coordinator	\$50.00/hour
	Technical Editor	\$50.00/hour
	Field Technician	\$47.00/hour
	Senior Field Technician	\$55.00/hour
Litigation Support	Expert testimony in depositions, hearings, mediation, and trials will be charged at 200% of above rates.	
Travel Time	Travel time will be charged at regular hourly rates, for actual time involved.	
Equipment	CAD/Personal Computer	\$25.00/hour
	Truck and Field Test Equipment	\$15.00/hour
	4-Wheel-Drive Truck	\$15.00/hour
	1/2- to 1-Ton Pickup Truck	\$8.00/hour
	Automobile	.30/mile
	Geophysical Equipment	Separate Schedule
	Geotechnical & Environmental Monitoring Equipment	Separate Schedule
	Other Computer Services	Separate Schedule
Laboratory Testing	Separate Schedule	
Outside Services	Rental of equipment not ordinarily furnished by Harding Lawson Associates and all other costs such as special printing, photographic work, travel by common carrier, subsistence, subcontractors, etc.	cost + 15%
Communication & Reproduction	In-house costs for long-distance telephone, telex, telecopier, postage and printing	project labor charges x 2%
Terms	Billings are payable upon presentation and are past due 30 days from invoice date. A finance charge of 1.5 percent per month, or the maximum amount allowed by law, will be charged on past-due accounts. Harding Lawson Associates makes no warranty, either expressed or implied, as to its findings, recommendations, specifications, or professional advice except that they are prepared and issued in accordance with generally accepted professional practice.	

Harding Lawson Associates, Inc. reserves the right to revise its Schedule of Charges with changes in its practice.

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UTM 002645

HARDING LAWSON ASSOCIATES  
CONTINUING SERVICE AGREEMENT

Harding Lawson Associates  
W.A.F. No. 010

WORK AUTHORIZATION FORM

**Project Title:** Utility Trailer Manufacturing Company, Site Assessment

**HLA Project Manager:** S. Popelar

**HLA Project No.:** To be assigned

**Telephone No.:** 714/556-7992

**SCHEDULE - Start:** October, 1992

**Complete:** January, 1993

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Compensation for services performed shall not exceed the amount of \$46,930 without authorization from Utility Trailer Manufacturing Company.

Description and scope of authorized services: Site assessment activities as described in HLA's Fee estimate (Proposal No. 20920-92.1), dated October 2, 1992.

Services provided herein by HLA shall be in accordance with the Terms and Conditions of the Environmental Consulting Agreement dated February 20, 1991.

**AUTHORIZED BY:**  
HARDING LAWSON ASSOCIATES

**AUTHORIZED BY:**  
UTILITY TRAILER MANUFACTURING CO.

By: Charles V. Peck

By: Bob Dean

Title: Principal Hydrogeologist

Title: Engineer

Date: 10/2/92

Date: 10/6/92

(P.O. # C22425)

**Liliana Martinez**

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**From:** Lillian Dominguez  
**Sent:** Tuesday, March 16, 2004 12:43 PM  
**To:** RECORDS  
**Subject:** File requests...

INDUSTRY URBAN-DEVELOPMENT -- 12283.0007 ACCORDION FILES  
REAL ESTATE TRANSACTIONS  
Documents Produced By Utility Trailer Vol. 1

through 9

45-5:

45-6 3/17/04

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