Attn: Barney Chan Alameda County Health Agency Division of Hazardous Materials Department of Environmental Health 80 Swan Way, Room 350 Oakland, CA 94621

Attn: Richard Hiett Regional Water Quality Control Board 2101 Webster Street, Suite 500 Oakland, CA 94612

Dear Gentlemen,

Please find attached a copy of Artesian Environmental Consultants comprehensive report on Impacted Soil at 4341 Haward St., Oakland, CA, dated Oct. 6, 1993.

You will note the project was started in November, 1991, and came to a conclusion on August 26, 27, and 31, 1993. I would like to particularly thank Mr. Chan for his supervision and close-working relationship with our consultants - Artesian Environmental.

Sincerely,

øames H. Minor

Attachments

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ARTESIAN ENVIRONMENTAL CONS 93 0CT 14 PM 12: 16

October 6, 1993

Mr. Jim Minor P.O. Box 726 Diablo, CA 94528



RE: Overexcavation of Hydrocarbon Impacted Soil at 4341 Howard Street, Oakland, CA

Dear Mr. Minor,

Artesian Environmental Consultants (Artesian), a general engineering and drilling contractor with hazardous waste removal certificate (#624461), is pleased to submit this letter report regarding the results of overexcavation activities performed at 4341 Howard Street, Oakland, California- formerly El Monte RV Center (see Figure 1).

BACKGROUND

On November 15, 1991 a 1,000 gallon gasoline underground storage tank (UST) was removed from the 4341 Howard Street site by Zaccor Corp. of Menlo Park, California. Soil samples taken at the time of the tank removal indicated up to 8,200 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPH-g), 33 ppm benzene (B), 93 ppm toluene (T), 75 ppm ethylbenzene (E), and 330 ppm total xylenes (X).

After removal of the tank the excavation was backfilled with clean imported fill material. The dispenser was removed. The product line was left in place. Stockpiled soil was left on-site.

On June 7, 1993 Artesian was contracted to overexcavate the contaminated soil, remove the existing and generated stockpiled soil, and install a groundwater monitoring well.

FIELDWORK

Work was begun on-site on June 24, 1993, after approval of a workplan and site safety plan by Mr. Barney Chan of the Alameda County, Department of Environmental Health.

Overexcavation

On June 24, 1993 Artesian personnel carried out the initial work by excavating down to the location of the former UST base, approximately 8 feet below ground surface. Soils were excavated by backhoe. The excavation was widened and deepened in an effort to overexcavate the hydrocarbon impacted soil. A photoionization detector was used to screen field samples at periodic intervals. All soils were stockpiled on-site. The stockpile was placed on bermed plastic sheeting and covered by weighted plastic sheeting to prevent any secondary site contamination.

3175 Kerner Boulevard, Suite E • San Rafael, CA 94901 • (415) 257- 4801 • FAX (415) 257- 4805

PROTECT OF

ARTESIAN ENVIRONMENTAL CONSULTANTS

October 6, 1993

Mr. Jim Minor P.O. Box 726 Diablo, CA 94528



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Excavation revealed a light brown sandy fill material to 2 feet below ground surface. Below this was a one foot black waxy clay layer. Underlying this was an olive green sandy silt with a hydrocarbon odor. Below the sandy silt layer was another black waxy clay layer approximately 2 feet thick. Underlying this was an olive green sandy silt with a hydrocarbon odor to the bottom of the excavation at 10 feet below ground surface. Groundwater was encountered in the excavation at 10 feet below ground surface.

Approximately 110 yards of hydrocarbon impacted soil was excavated and stockpiled onsite. The olive green coloration of the soil persisted throughout the entire excavation process.

Soil samples were taken from each of the four sidewalls of the excavation at 8 feet below ground surface. Sample SW-1 was taken from the west sidewall, sample SW-2 was taken from the northeast sidewall, sample SW-3 was taken from the southeast sidewall, and sample SW-4 was taken from the north sidewall. The analytical results of this sampling event are provided in Table 1. The lab reports are included in Appendix A.

Soils were sampled according to Artesian's standard operating procedures (SOP) included in Appendix D. All samples were sent to Chromalab, Inc. of San Ramon, California. Chromalab is certified by the state of California for the analyses performed.

On August 19, 1993 the excavation was backfilled with clean imported backfill material purchased from Rock Transport of Oakland, California.

Groundwater Monitoring Well Installation

On June 25, 1993 Artesian personnel supervised Ed Svoboda Guess Drilling of San Rafael, California in the installation of a groundwater monitoring well (MW-1). A SOP for groundwater monitoring well installation and sampling is included in Appendix D.

Groundwater monitoring well MW-1 was placed approximately 10 feet from the edge of the excavation in the groundwater downgradient direction. The westerly groundwater gradient flow direction was based on wells at the neighboring Bank of America site located at 500 High Street, adjacent to the subject site.

Groundwater monitoring well MW-1 was constructed with two inch diameter Schedule 40, factory threaded and slotted polyvinyl chloride casing. A slot size of 0.020 inches was selected based on the knowledge that the predominant soil type at this site is a sandy silt. The slotted interval extends from 5 feet above first groundwater to 10 feet below first groundwater, to a total depth of 20 feet. Groundwater was encountered at 10 feet below ground surface. The annular space around the 0.020 inch slotted sections of casing was packed with lonestar #3 sand (LS#3 = 1.5 mm) as filter material, from the bottom of the borehole to approximately 3 feet below ground surface. A well completion log for well MW-1 is included in Appendix B.

Two soil samples were taken at the time of drilling at five and ten feet below ground surface. Both samples indicated not detected at or above the detection limit (ND) levels for TPH-g and BTEX. A groundwater grab sample taken at the time of drilling also indicated ND levels for TPH-g and BTEX. All samples were sent to Chromalab, Inc. of San Ramon, California. Chromalab is certified by the state of California for the analyses performed.

On June 28, 1993 the monitoring well MW-1 was developed following Artesian Environmental's SOP for well development which is included in Appendix D.

On July 27,1993 groundwater monitoring well MW-1 was sampled following Artesian's SOP for well sampling. Results of this sampling analyses indicated 0.25 ppm TPH-g and 1.7 parts per billion (ppb) benzene; toluene, ethylbenzene, and xylenes were all below reporting limits (ND). The lab reports for these analyses are included in Appendix A.

Borehole Investigation

On August 26 and 27, 1993 a borehole investigation of the site was conducted to delineate any possible contaminant migration. A total of six boreholes were drilled using a Geoprobe discrete sampling tool. A SOP for continuous coring tools is included in Appendix D.

Sample 6CC-8 was taken below the former dispenser location. See Figure 2 for the location of the other boreholes. All samples obtained using the Geoprobe system were taken from 8 feet below ground surface.

All borehole samples indicated ND levels for TPH-g and BTEX. All samples were sent to Chromalab, Inc. of San Ramon, California. The lab reports for these analyses are included in Appendix A.

Also on August 27, 1993 the product line was filled with neat cement by tremie pipe.

Stockpile Removal

On August 31, 1993 Artesian personnel supervised and documented the removal of the stockpiled soil. The stockpiled soil (110 cubic yards) was transported to Gibson Environmental of Bakersfield, California by Caballero Trucking of San Jose, California for recycling. Transportation documentation is included in Appendix C.

REPORTAGE

A copy of this report, along with a cover letter, should be sent to the addresses listed below.

Attn: Barney Chan Alameda County Health Agency Division of Hazardous Materials Department of Environmental Health 80 Swan Way, Room 350 Oakland, California 94621

Attn: Richard Hiett Regional Water Quality Control Board 2101 Webster Street Suite 500 Oakland, California 94612

LIMITATIONS

The authors and firm offer no assurance and assume no responsibility for site conditions or activities which were beyond the scope of work requested by the client and referenced in the introduction of this report. This report was prepared with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This investigation was conducted solely as a tool in assessing environmental conditions of the soil and/or groundwater with respect to relative hydrocarbon product contamination in the immediate vicinity of the former underground storage tank. Evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of observation points. There may be variations in subsurface conditions away from the sample points available. This report and all matters contained herein were prepared for the sole and exclusive benefit of the client specified herein, and is intended only for the use of the client.

Sincerely,

Darrell Taylor

Project Geologist

Danell Zoph

James A Jacobs R.G. #4815 Principal Geologist

NO. 4815

TABLE 1. ANALYTICAL RESULTS

***************************************	A			= 11 = x 11 01 1	BIEBUELE	
Sample ID	Date	TPH-g	Benzene	Toluene	Ethylbenzene	L-Xylenes
	<u> </u>					
SW-1	6/24/93	120	690	<0.1	5.7	0.87
SW-2	6/24/93	400	3600	15	12	41
SW-3	6/24/93	36	880	<0.03	2.9	0.037
SW-4	6/24/93	410	7200	180	11	55
MS-1	6/25/93	<1 `	<0.005	<0.005	<0.005	<0.005
MS-2	6/25/93	<1	<0.005	<0.005	<0.005	<0.005
MW-1(grab)	6/25/93	<1	<0.0005	<0.0005	<0.0005	<0.0005
1CC-8	7/26/93	<1	<0.0005	<0.0005	<0.0005	<0.0005
2CC-8	7/26/93	<1	<0.0005	<0.0005	<0.0005	<0.0005
4CC-8	7/26/93	<1	<0.0005	<0.0005	<0.0005	<0.0005
5CC-8	7/26/93	<1	<0.0005	<0.0005	<0.0005	<0.0005
6CC-8	7/27/93	<1	<0.0005	<0.0005	<0.0005	<0.0005
MW-1	7/27/93	0.25	0.0017	<0.0005	<0.0005	<0.0005

All Values Given In Parts Per Million

TPH-g = Total Petroleum Hydrocarbons as Gasoline

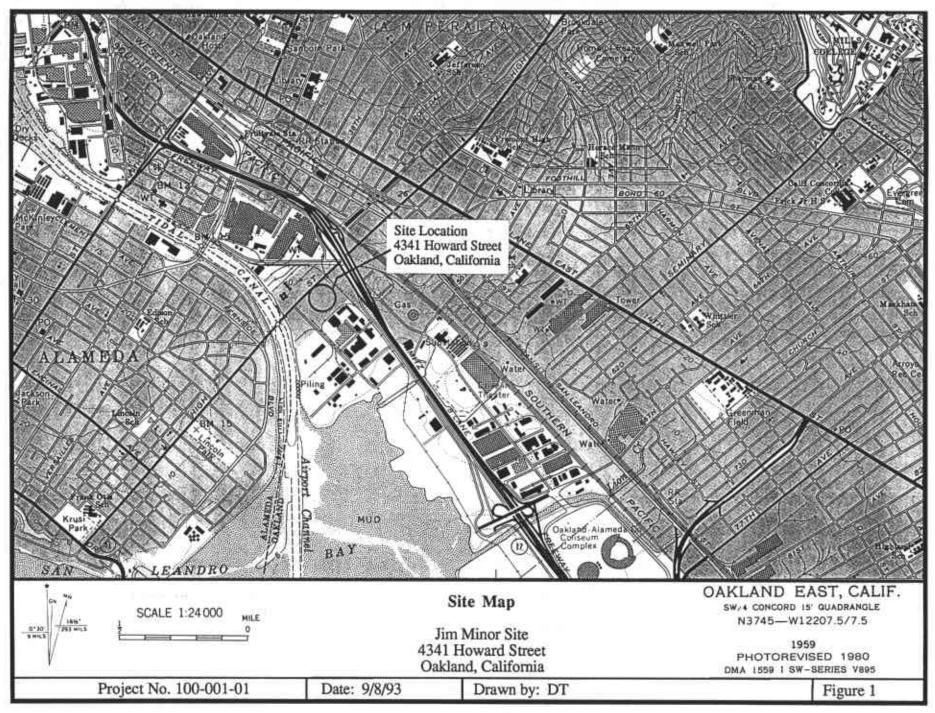
SW-# = Sidewall Sample (all at 8' below ground surface)

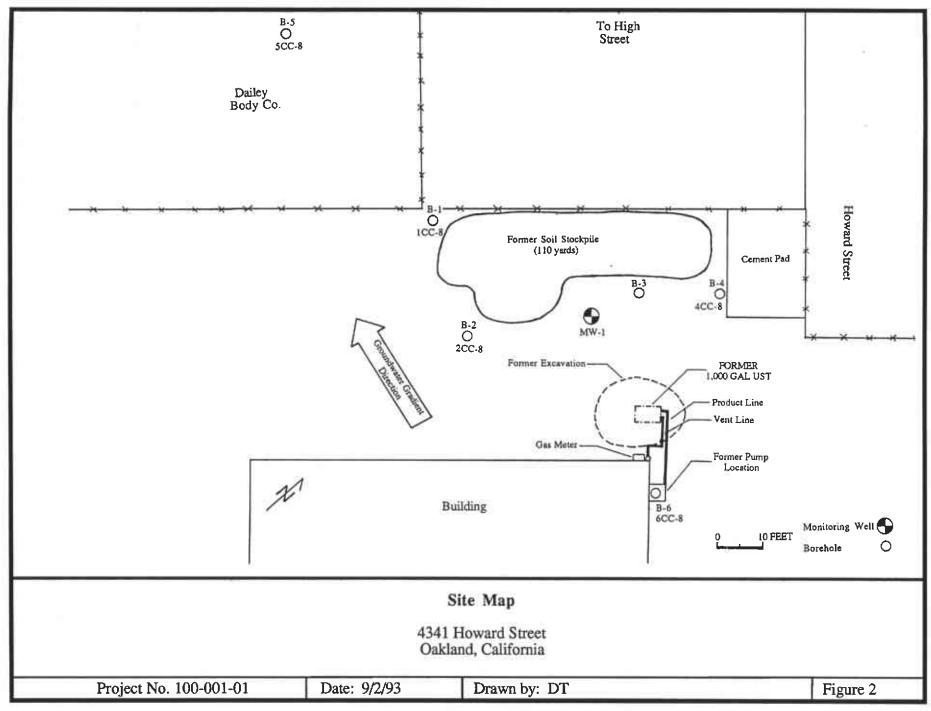
MS-# = Monitoring Well Soil Sample

MW-1(grab) = Water Grab Sample Taken During Well Installation

#CC-8 = Geoprobe Soil Sample (all at 8' below ground surface)

MW-1 = Groundwater Monitoring Well Water Sample





CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

July 6, 1993

ChromaLab File No.: 9306344

Submission #: 9306000344

ARTESIAN ENV. CONSULTANTS

Attn: Jim Jacobs

RE: Six soil samples for Gasoline and BTEX analysis

Project Name: JIM MIROR Project Number: 100-001-01

Date Sampled: June 25, 1993 Date Submitted: June 28, 1993

Date Analyzed: June 29, 1993

RESULTS:

Sample I.D.	Gasoline (mg/Kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl Benzene (µg/Kg)	Total Xylenes (µg/Kg)
/SW-1	120	690	N.D.**	5700	870
,5W-1 SW-2	400	3600	15000	12000	41000
SW-3	36	880	N.D.*	2900	37
SW-4	410	7200	18000	11000	55000
MS-1	N.D.	N.D.	N.D.	N.D.	N.D.
MS-2	N.D.	N.D.	N.D.	N.D.	N.D.
	j.				
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	116%	98%	97%	104%	106%
DUP SPIKE RECOVERY		888	88%	96%	98%
DETECTION LIMIT	1.0	5 .0	5.0	5.0	5.0
METHOD OF ANALYSIS	5030/8015	8020	8020	8020	8020

* Detection limit= 30 μ g/Kg due to dilutions needed.

** Detection limit= 100 μ g/Kg due to dilutions needed.

ChromaLab, Inc.,

Eric Costa

Analytical Chemist

Eric Tam

Laboratory Director

do

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

July 6, 1993

ChromaLab File No.: 9306344 Submission #: 9306000344

ARTESIAN ENV. CONSULTANTS

Attn: Jim Jacobs

One water sample for Gasoline and BTEX analysis RE:

Project Name: JIM MIROR

Project Number: 100-001-01

Date Submitted: June 28, 1993 Date Sampled: June 25, 1993

Date Analyzed: June 30, 1993

Sample <u>I.D.</u>	Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µq/L)	Total Xylene: (µg/L)
MW-1	N.D.*	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY DUP SPIKE RECOVERY DETECTION LIMIT METHOD OF ANALYSIS	N.D. 93% 50 5030/8015	N.D. 100% 99% 0.5 602	N.D. 97% 98% 0.5 602	N.D. 99% 106% 0.5 602	N.D. 98% 104% 0.5 602

2 unknown peaks in early gasoline range. If quantified as gasoline, concentration is 370 μ g/L.

ChromaLab, Inc.,

Eric Costa

Analytical Chemist

Eric Tam

Laboratory Director

CHAIN OF CUSTODY

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MW-1	6-25-93	9:15	VU	X	3"	* * * · · · · · · · · · · · · · · · ·	X	×			 		-	
5w-1	624-93		X			WEST SABUALL 8'BGS	X	X	 				-	TAKE SAMPLE >2"
5w-2	6-24-93	3:45	X		1	LORTH BUST SOFWALL 8'BGS	×	 	 				+	TAKE SAMOU 72" FROM BND OF TUBE
Sw-3	6-24-93		K		1.	SOUTHEMENT STOPMAN 8'86-5	X	K						
5w-4	6-24.93		02		-/	MORTH SIDEWALL B'SUS	<u> </u>	X			 		 	
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M5-2	6-25-93	7.00	×		ŀ	MENITORING WELL PORILLE MW-+ NOMES	1~	 /-					†	I DAMAC JAI
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CHROMALAB, INC.

Environmental Laboratory (1094)

August 4, 1993

ChromaLab File No.: 9307302

Submission #: 9307000302

ARTESIAN ENV. CONSULTANTS

Attn: Jim Jacobs

RE: Five soil samples for Gasoline and BTEX analysis

Project Name: JIM MINOR Project Number: 100-001-01

Date Sampled: July 26-27, 1993 Date Submitted: July 28, 1993

Date Analyzed: August 2, 1993

RESULTS:

Sample I.D.	Gasoline (mo/Kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl Benzene (µg/Kg)	Total Xylenes (µg/Kg)
1CC-8 2CC-8 4CC-8 5CC-8 6CC-8	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.
BLANK SPIKE RECOVERY DUP SPIKE RECOVERY DETECTION LIMIT METHOD OF ANALYSIS	N.D. 111% 1.0 5030/8015	N.D. 102% 100% 5.0 8020	N.D. 106% 104% 5.0 8020	N.D. 102% 105% 5.0 8020	N.D. 107% 107% 5.0 8020

ChromaLab, Inc.

Jack Kelly

Analytical Chemist

Eric Tam

Laboratory Director

do

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

August 3, 1993

ChromaLab File No.: 9307302

Submission #: 9307000302

ARTESIAN ENV. CONSULTANTS

Attn: Jim Jacobs

RE: One water sample for Gasoline and BTEX analysis

Project Name: JIM MINOR Project Number: 100-001-01

Date Sampled: July 27, 1993 Date Submitted: July 28, 1993

Date Analyzed: August 3, 1993

RESULTS:

Sample I:D:	Gasoline (µq/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
MW-1	250	1.7	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY DUP SPIKE RECOVERY DETECTION LIMIT	N.D. 100% 50	N.D. 104% 109% 0.5	N.D. 101% 106% 0.5	N.D. 104% 106^ 0.5	N.D. 106% 109% 0.5
METHOD OF ANALYSIS	5030/8015	602	602	602	602

ChromaLab, Inc.

Billy Thach

Analytical Chemist

Eric Tam

Laboratory Director

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5cc-8	7-26-93	3:20 pm		K	BONEHOLY	75-816	65	Soil 1 Tubl	K				ļ					
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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

August 27, 1993

ChromaLab File No.: 9308351

ARTESIAN ENV. CONSULTANTS

RE: One soil sample for TCLP RCRA Metals analyses

Project Name: JIM MINOR

Work Order Number: 100-001-01

Date Submitted: August 26, 1993 Date Sampled: August 25, 1993

Date Analyzed: August 27, 1993

RESULTS: Sample I.D.: S100/S101/S102

<u>Metals</u>	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Levels (mg/L)
Arsenic (As)	N.D.	0.05	5
Barium (Ba)	三 (4) 20 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	0.05	100
Cadmium (Cd)	0.02	0.01	1
Chromium (Cr)	Ŋ.D.	0.10	5
Lead (Pb)	0.8	0.10	5
Mercury (Hg)	N.D.	0.005	0.2
Selenium (Se)	0.59	0.05	1
Silver (Ag)	0.06	0.05	5

Method of Analysis: 1311/3010/6010/7470

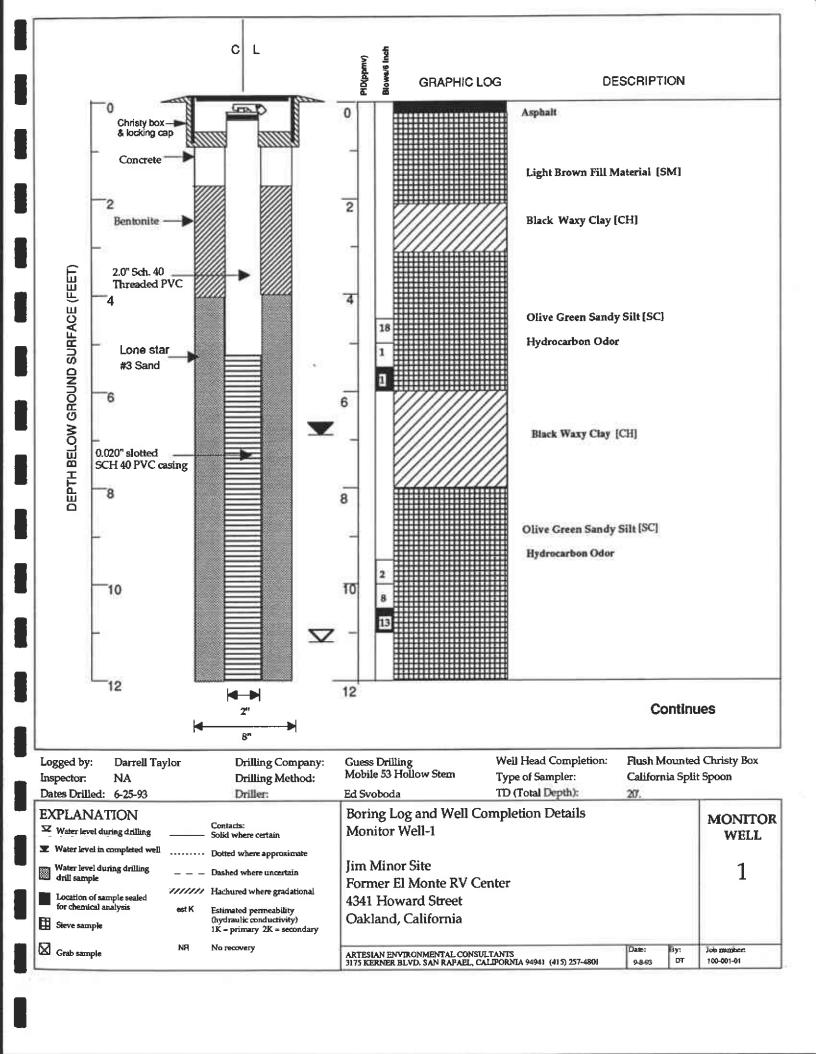
ChromaLab, Inc.

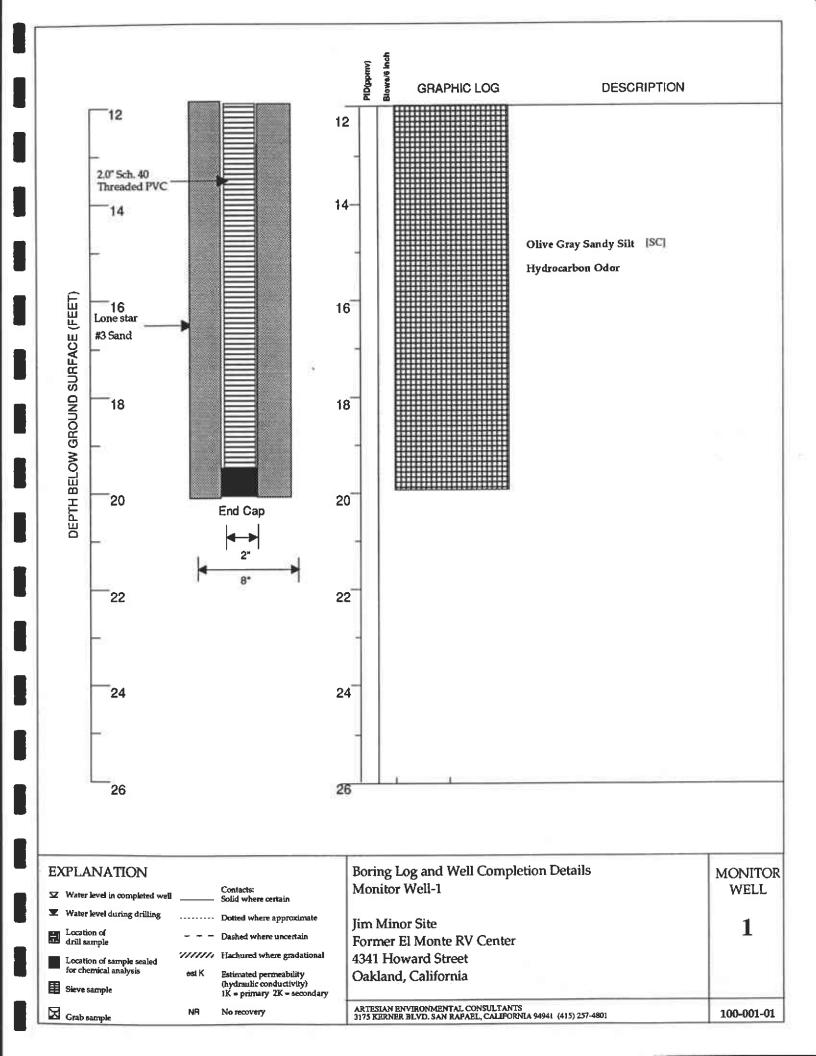
Charles Woolley

Analytical Chemist

Refaat A. Mankarious Inorganic Supervisor

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UNIFIED SOIL CLASSIFICATION SYSTEM GRAPHIC LETTER MAJOR DIVISIONS TYPICAL DESCRIPTIONS SYMBOL DORMYZ WELL-GRADED GRAVELS, GRAVEL-SAND G W MIXTURES, LITTLE OR NO PINES CLEAN GRAVELS GRAVEL AND (LETTLE OR NO FINES) POORLY-GRADED GRAVELS, GRAVEL-SAND GRAVELLY SOILS GP MIXTURES, LITTLE OR NO PINES MORE THAN 50% OF COARSE COARSE FRACTION SILTY GRAVELS, GRAVEL-SAND-SILT GRAINED GM RETAINED ON GRAVELS WITH FINES MOCTURES NO. 4 SIEVE SOILS (APPRECIABLE AMOUNT CLAYEY GRAVELS, GRAVEL-SAND-CLAY OF FINES) GC MIXTURES WELL-GRADED SANDS, GRAVELLY SANDS. s w MORE THAN 50% LITTLE OR NO FINES **CLEAN SAND** OF MATERIAL IS SAND AND (LITTLE OR NO FINES) POORLY-GRADED SANDS, GRAVELLY SANDS. LARGER THAN SANDY SOILS SP LITTLE OIL NO FINES NO. 200 SIEVE SIZE MORE THAN 30% OF COARSE PRACTION PASSING SM SILTY SANDS SAND-SILT MIXTURES SANDS WITH FINES NO. 4 SIEVE (APPRECIABLE AMOUNT OF FINES) SC CLAYEY SANDS, SAND-CLAY MIXTURES INORGANIC SILTS AND VERY FINE SANDS ML ROCK PLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY FINE SILTS AND CLAYS INORGANIC CLAYS OF LOW TO MEDIUM GRAINED a. PLASTICITY, GRAVELLY CLAYS, SANDY LIQUID LIMIT LESS THAN 50 **501LS** CLAYS SILTY CLAYS, LEAN CLAYS ORGANIC SILTS AND ORGANIC SILTY CLAYS OL OF LOW PLASTICTTY INORGANIC SILTS, MICACEOUS OR DIATO мн MORE THAN 50% MACEOUS FINE SAND OR SILTY SOILS OF MATERIAL IS SILTS AND CLAYS INORGANIC CLAYS OF HIGH PLASTICITY SMALLER THAN CH LIQUID LIMIT GREATER THAN 50 FAT CLAYS NO 200 SIEVE SIZE ORGANIC CLAYS OF MEDIUM TO HIGH OH PLASTICITY, ORGANIC SILTS HDIH HTIW ZJIOZ 9MAWZ , ZUMUH .TAB9 HIGHLY ORGANIC SOILS PT ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

KEY TO LOG OF BORINGS SAMPLES & BLOWCOUNTS LABORATORY TESTS HAMMER BLOWS PER FOOT OF PENETRATION ΑL ATTERBERG LIMITS TEST INDICATES UNDISTURBED SAMPLE DSCU DIRECT SHEAR TEST (Consolidated, Undrained) INDICATES DISTURBED SAMPLE CBR CALIFORNIA BEARING RATIO TEST STANDARD PENETRATION TEST SAMPLE COMP COMPACTION TEST HR . INDICATES NO RECOVERY CON CONFINED COMPRESSION (Consolidation Test) SAMPLES DRIVEN WITH A 140-POUND HAMMER PERCENT PASSING NO. 200 SIEVE DROPPING 30 INCHES (Test Results in Parentheses)



ARTESIAN ENVIRONMENTAL CONSULTANTS. JOB SAFETY PLAN

Project location: 4341 Howard St., Oakland, California Artesian Job #100-001-01

The possible hazards on this job are expected to be: physical hazards associated with working a backhoe, and the excavation of gasoline contaminated soil.

Possible chemical hazards from soil contaminated with gasoline or any pure product of the aforementioned substance.

Required personal protective equipment for this project: Level D protection (steel toe neoprene boots, coveralls, work gloves, hard hat, safety glasses), level C protection on standby (OV cartridges).

PAGEN # (415) 258-5630

ARTESIAN ENVIRONMENTAL CONSULTANTS JOB SAFETY PLAN

1.	Site: Dailey Body Cor	mpany (formerly, El M	onte RV Center)						
2.	Location: 4341 Howard Street, California								
3.	Plan Prepared: Artesia	an Environmental Cons	sultants Date: 6	5-8-93					
4.	Plan Approved:	Darrell Taylor, PM Jim Jacobs, RG							
5.	Facility Description:	Truck Body Shop							
6.	Status (active, inactive	e, unknown): Active.							
7. west, a	Surroundings: Busine and south.	ess; bounded by High S	Street on the north, bus	inesses to the east,					
8.	Site map: Attached								
9.	Climate: Moderate dr	y summers, cool wet w	vinters.						
10. compla 15, 199	Site history (origin of aints, etc.): A 1,000 ga	contamination and hist lon underground gasol inmpacted soil was no	ine storage tank was re	e, chemical spills, moved on November					
11. soil wi The so	Description of work: 6 ll be stockpiled on visquil may be bioremediate.	Overexcavation to extra queen, and will be cove d before it is transporte	red with visqueen pend	cted soil. Excavated ling final disposition.					
12.	Chemical contaminant	s:							
	Chemical	<u>Media</u>	Minimum	<u>Maximum</u>					
	Gasoline	Soil/pure product	0	Unknown					
13.	Procedures to mitigate	hazards:							

A) Mechanical Hazards

- verify that all equipment is in good condition
- barricade area or otherwise restrict access
- exercise caution when working in close proximity to the 580K backhoe, bobcat, and trench shoring plates.

B) Electrical Hazards

- locate and mark buried utilities before excavating
- maintain at least 10 feet of clearance from overhead power lines
- properly ground all electrical equipment
- avoid standing in water when operating electrical equipment

- be familiar with specific operating instructions for each piece of equipment
- barricade area or otherwise restrict access
- deactivate any source of ignition within 25 feet of work area

C) Chemical Hazards

- use personal protective equipment listed above
- conduct direct reading air monitoring to evaluate respiratory and explosion hazards
- wash hands before eating or drinking
- avoid hand to mouth contact before washing hands
- keep dust to a minimum, avoid breathing dust

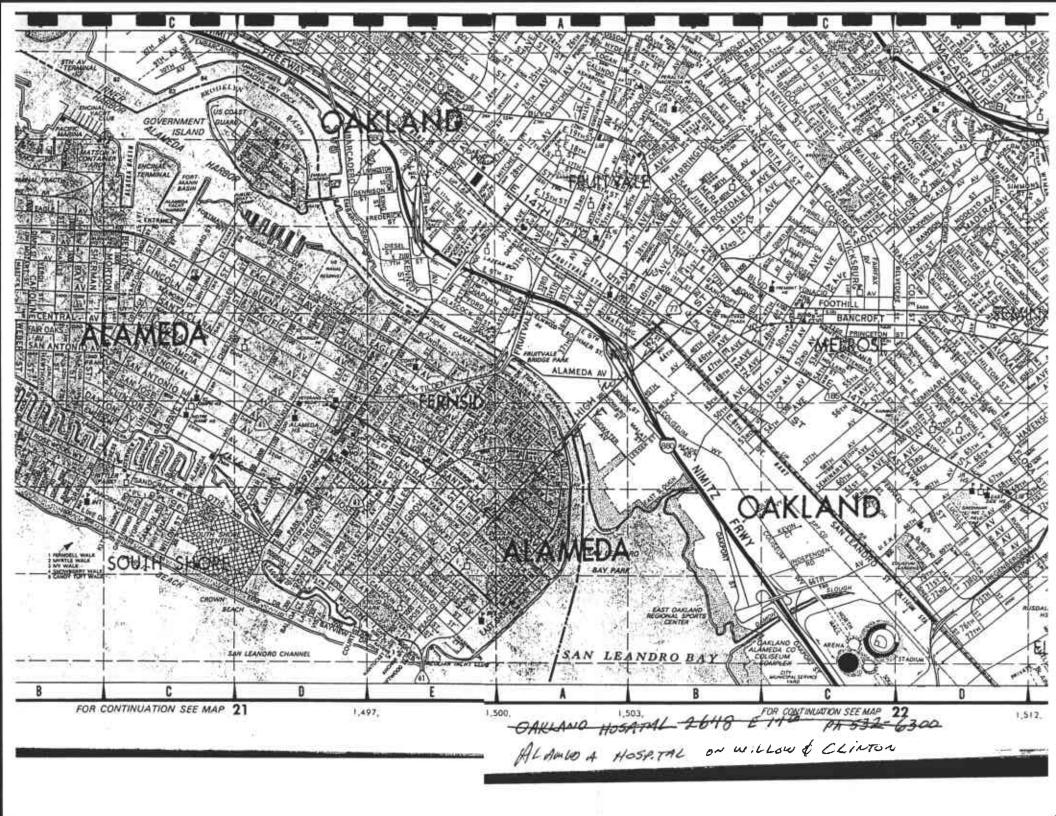
D) Temperature Hazards

- Heat: when temperature exceeds 70 F, take frequent breaks in shaded area. Unzip or remove coveralls during breaks. Have cool water or electrolyte replenishment solution available. Drink small amounts frequently to avoid dehydration. Count the pulse rate for 30 seconds, as early as possible in the rest period: If the pulse rate exceeds 110 beats per minute at the beginning of the rest period, shorten the work cycle by one-third.
- Cold: wear multilayer cold weather outfits- the outer layer should be of wind-resistant fabric
 - Wet: wear proper raingear and shoes with slip resistant tread
 - E) Acoustical Hazards
- use earplugs when noise level prevents conversation in normal voice at a distance of three feet
 - F) Organic Vapors
- monitor organic vapors. If total hydrocarbons exceed 5 ppm above background, don Level C personal protective equipment
 - if total hydrocarbons exceed 500 ppm, supply mechanical ventilation
- monitor lower explosive limit. If LEL exceeds 20%, leave area and call the fire department
 - no smoking within 25 feet of working area
 - post no smoking signs
- 14. Decontamination procedures: Steam clean equipment before leaving work area. Wash boots and gloves. Launder coveralls. Wash hands and face as soon as possible after stopping work.
- 15. Materials generated on-site: Drum drill cuttings and decon water in DOT approved drums with proper labels and markings. Place soil stockpiles on visqueen and cover with weighted visqueen.
- 16. Site resources: water, restrooms, phone, electricity

Fire Department 911 Oakland Hospital (510) 532-6300 2648 E 14th, Oakland, CA Poison Control Center: 800-233-3360 or 415-821-8324 Project Manager: Office (415) 257-4801 or hm (510) 758-3341 Health & Safety Officer: Office (510) 633- 19. Emergency route to Hospital: Stit Howard Saret, go right onto High Street, Jondown approximately 17 blocks down E 14th, to the Oakland Hospital (2648 E 14th) Althoropy Hospital: Turn left onto E 14th, Jondown approximately 17 blocks down E 14th, to the Oakland Hospital (2648 E 14th) Althoropy Hospital: Lift onto High Street (v & statesterius) Right onto Park Street Lift onto Pa		Fire Depart	tment 011		
Poison Control Center: 800-233-3360 or 415-821-8324 Project Manager: Office (415) 257-4801or hm (510) 758-3341 Health & Safety Officer: Office (510) 633- 19. Emergency route to Hospital: Exit Howard Street, go right onto High Street, continue on High Street across 880 to E14th, Furn left onto E 14th, On down approximately 17 blocks down E 14th to the Oakland Hospital (2648 E 14th) ALAMON HOSP THE: Left ONTO HIGH STREET (NESTREET) AND STREET ONTO SAME CLARA STREET 20. Project personnel list and safety plan distribution record: All project staff must sign, indicating they have read and understand the safety plan. Employee Name Date/Time Signature 1-14-13)	
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necessary by the Health and Safety Officer.	ealth and safety orientat	meening: An per	sonner participating in a brief "tailgate" safety	meeting is	required as deemed
					rodumen an arrest
Name Topics Date Employee Initial			-		
	Name	Topics	Dat	e	Employee Initial
					:
				_	

Ambulance 911 Police 911 22. Visitors: It is Artesians' policy that visitors must furnish his/her own personal protective equipment. All visitors are required to sign the visitor log and comply with the safety plan requirements.

Firm Name	Date/Time	Signature
1)	-	-
-		
7		
4	-	
7	* ********	
	Firm Name	Firm Name Date/Time



ZÜNE

ZONE 7 WATER AGENCY

6997 PARKSIDE DRIVE

PLEASANTÓN, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (810) 462-3914

31992

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
CATION OF PROJECT 4341 Howard Stuet	PERMIT NUMBER 93339 LOCATION NUMBER
Jim Minny dress fo Box 726 Phone Diallo Zip 04528	PERMIT CONDITIONS Circled Permit Requirements Apply
PLICANT SCATE TOWN A LOIAN ENVT. CASITS Phone 415 257-480 SAN RALL CA Zip 9490 SOF PROJECT all Construction althodic Protection Well Destruction POSED WATER SUPPLY WELL USE Industrial Dicipal Irrigation TILLING METHOD: ud Rotary Air Rotary Auger Other RILLER'S LICENSE NO. C57 605128 L. PROJECTS Drill Hole Diameter Casing Diameter 2 in. Depth 20 ft. Surface Seal Depth 5-10 ft. Number One	A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Driters Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is void if project not begun within 90 days of approval date. B. WATER WULLS, INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grout placed by tremis. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and trigation wells unless a lesser depth is specially approved. Minimum seel depth for monitoring wells is the maximum depth practicable or 20 feet. C. GEOTECHNICAL. Backfill bore hole with compacted outlings or heavy bontonite and upper two feet with compacted material. In areas of known or suspected contamination, tremised demant grout shall be used in place of compacted cuttings. D. CATHODIC, Fill hole above anode zone with concrete placed by tremise. E. WELL DESTRUCTION. See attached.
Number of Borings Maximum Hole Diameter in. Depth ft.	
IMATED STARTING DATE 6/25/93	Approved Hyman Hong Date 21 Jun 93
inty Ordinance No. 73-68.	Wyman Hong

Pacific Gas and Electric Company

Central Division 4801 Oakport Street Oakland, CA 94601

06-22-93



ARTESIAN ENVIRONMENTAL CONSULTANTS Attn: OLIVIA JACOBS 3175 KERNER BLVD UNIT #E . SAN RAFAEL. CA 94901

Dear Sir or Madam:

Thank you for notifying PG&E of your intent to work in the vicinity of our underground facilities. Information about the location(s) is or will be provided by surface markings at the work site.

The message which we received from USA indicates work will be done for Ticket #184799-00 in the vicinity of:

et Address:

4341 HOWARD ST

oss Street:

HIGH ST

We will exercise due care to ensure that our markings are as complete and accurate as reasonably possible. As you can appreciate, the nature of underground installation and construction prohibits any guarantee as to the absolute accuracy of surface markings. The precise location of underground facilities can only be determined by you, through careful hand-digging in complaince with California Government Code Section 4216, and Cal/OSHA Construction Safety Orders, Article 6, and Fed/OSHA Construction Safety and Health Standards, Subpart P.

We would like to emphasize the requirements to contact the appropriate regional notification center (Underground Service Alert, a.k.a. USA), at least two working days prior to the start of actual excavation and to delineate with white paint or other suitable markings the area to be excavated a specified in California Government Code Sections 4216.2(and) and 4216.2(e).

We call your attention to Section 1540 (a)(1) of the Construction Safety Orders (Title 8. California Administration Code Section 1540), issued by the Occupational Safety and Health Standards Board, pursuant to the California Occupation Safety and Health Act of 1973, which states:

ARTESIAN ENVIRONMENTAL CONSULTANTS Attn: OLIVIA JACOBS 06-22-93 Page 2

> "Frior to opening an excavation, effort shall be made to determine whether underground installations (i.e., sewer, water, fuel, electric lines, etc.) will be encountered and, if so, where such underground installations are located. When the excavation approaches the approximate location of such an installation, the exact location shall be determined by careful probing or hand-digging; and, when it is uncovered, adequate protection shall be provided for the existing installation. All known owners of underground facilities in the area concerned shall be advised of proposed work at least 48 hours (2 working days) prior to the start of actual excavation" (Call USA toll free 800±642-2444.)

> > Dan C Denama

Any further information you may desire may be obtained by contacting Denise Lee at 437-2211 (Gas Happing).

Sincerely,

James C. Dunaway Gas & Electric Operations Manager

JCD:Im

MELICANT S

STENSTAND DESCRIPTIONS

ZONE / WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

CHEE

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
OCATION OF PROJECT 4341 HOWARD ST.	PERMIT NUMBER 93393 LOCATION NUMBER
LIENT LIENT Lidreas R.D. ROX 726 Volce (5/0) 833-8874 Ty Diable CA Zip 94528 APPLICANT Name DALREL Mirror ARCESTAN ENVIRONMENTAL Fox (8) 257-9805 ARCESTAN ENVIRONMENTAL Fox (8) 257-9805 ARCESTAN ENVIRONMENTAL Fox (8) 257-9801 City SAN MARKE CA Zip 94901 TYPE OF PROJECT Well Construction General Cathodic Protection General Water Supply Contamination Monitoring Well Destruction PROPOSED WATER SUPPLY WELL USE Domestic Industrial Other Nove: Municipal krigation	PERMIT CONDITIONS Circled Permit Requirements Apply A. GENERAL 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is void if project not begun within 90 days of approval date. 8. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seed thickness is two inches of cement grout placed by tremis. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for
DRILLING METHOD: Mud Rotary Air Rotary Auger Cable Other ONEU MATIC HAMMER DRILLER'S LICENSE NO. C-57: 62446/ WELL PROJECTS Drill Hole Diameter In. Maximum Casing Diameter In. Depth It. Surface Seal Depth It. Number GEOTECHNICAL PROJECTS Number of Borings 5 Maximum	monitoring wells is the maximum depth practicable or 20 feat. C. GEOTECHNICAL. Backfill bore hote with compacted cuttings or heavy bantonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings. D. CATHODIC. Fill hole above anode zone with concrete placed by tremie. E. WELL DESTRUCTION. See attached.
Number of Borings Hole Diameter In Depth Depth Is ft. ESTIMATED STARTING DATE T-22-93 ESTIMATED COMPLETION DATE T-22-93 Thereby agree to comply with palrequirements of this pointil and Alamoda. Zoush Onlinears No. 73-66	Approved Wyman Hong Date 20 Jul 9

See Instructions on back of page	о.	Department of Toxic Substances Cont Sucramento, California
	2. Page 1 2 of 2	Information in the shaded areas is not required by Faderal law.
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HR # 510-8	3/-13	84
per condition for transport by highway according to applicable program in place to reduce the volume and toxicity of wa	le federal, state and ste generated to the	degree I have determined to be
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See Instructions on back of page 6.

Department of Toxic Substances Control

EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

informia Environmental Protection Agency and OMB No. 2050–0039 (Expires 9-30-94) or type. Form designed for use on elite (12-pitch) typewriter.	structions on back of page 6.		Department of Toxic Substances Sacramento, California
1. Generator's US EPA ID No.	Manifest Document No.	2. Poge 1	Information in the shaded areas is not required by Federal law.
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. Generator's Name and Mailing Address Tin. MINOR	X-55-30-1K-m	E Door and	600 1100 1100
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Bakersfield, Ca. 93308 (CIAIDI918)		6	1955
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3. Special Handling Instructions and Additional Information			
Town Minn all 1	المرسا وسيد	,	
James Minor 24 HR # 51	0-831-138	1	
5. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consigni	ment are fully and accurately described abo	ve by proper s	hipping name and are classified,
packed, marked, and labeled, and are in all respects in proper condition for transp	ort by highway according to applicable led	ral, state and	international laws.
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IN CASE OF EMERGENCE OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-24-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

Standard Operating Procedures

SOIL SAMPLING

- Hand Samples: Undisturbed soil samples are obtained using a slide hammer hand sampler with a single sampling cup at the end. The sampler holds one (1), clean, six inch long by two inch diameter brass tube. The sample is obtained by hammering the cup and tube into the undisturbed soil. The sampler is removed, opened, and the brass tube containing the sample is extracted.
- Electric Drive Samples: Undisturbed soil samples are obtained using a continuous coring, 0.75 inch, lined, steel sampler. The sampler is driven into the soil using an electric rotary hammer. The sampler holds one, four foot by one inch diameter, new, plastic, sampling liner. After driving the steel sampler three to four feet, the sampler is extracted and the sampling liner containing the sample is removed.
- Pneumatic Drive Samples: Undisturbed soil samples are obtained using a 1.0 inch, steel, outer drive casing, fitted with a 0.5 inch, inner soil sampler, fitted with a brass liner. The casing is pneumatically driven to the desired depth, an inner plug rod is removed and the sampler is inserted into the casing. The sample is obtained by hammering the sampling cup into the undisturbed soil. After driving the sampler six inches, it is extracted and the sampling liner containing the sample is removed.
- California Split-spoon Samples: Undisturbed soil samples are obtained using a California Split-spoon sampler fitted with three six inch long by two inch diameter brass tubes. The sampler is lowered down inside a hollow stem auger after the auger plug has been removed. The sampler is then driven at least eighteen inches. The sampler is usually driven using a 140 pound hammer dropping 30 inches at each blow. After driving the sampler, the sampler is extracted and the sampling liner containing the sample is removed.

Immediately after extraction the sample tube ends are sealed with Teflon tape, plastic cap plugs, and isolated in hermetically sealed locking plastic bags.

All samples are labeled and chilled to 0° C for transportation to a California State certified hazardous materials laboratory. Chain of Custody documentation accompanies all samples to the laboratory. A copy of the Chain of Custody documentation is attached to the Certificate of Analysis.

All soil samples are collected in accordance with California Regional Water Quality Control Board (RWQCB) procedures described in the Leaking Underground Fuel Tank (LUFT) Field Manual, the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, and local regulatory guidelines.

Standard Environmental Protection Agency (EPA), San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), and Department of Health Services (DHS) methodologies for sampling and analyses are routinely utilized.

Chain of Custody documentation accompanies all samples to the laboratory. A copy of the Chain of Custody documentation is attached to the Certificate of Analysis.

Soil cuttings and excess sampling materials are properly stored and labeled on site in DOT 17-H containers pending off site disposal.

Standard Operating Procedures

WELL INSTALLATION

The boreholes for monitor / extraction wells are drilled using a truck-mounted, continuous flight, hollow-stem auger drill rig. The diameter of the borehole is a minimum of four inches larger than the outside diameter of the casing when installing the well screen (DWR Publication 74-81). The hollow-stem auger provides minimal interruption of drilling while permitting soil sampling at the desired intervals. All wells are installed by state-licensed drillers.

The monitor / extraction wells are cased with blank and factory-slotted, threaded, schedule 40 polyvinyl chloride (PVC). The slots are generally 0.010-inch or 0.020-inch wide by 1.5-inch long slot size, with approximately 42 slots per foot. Slot sizes are determined by previous well installations in the area or by grain size analysis. A threaded PVC cap is fastened to the bottom of the casing. Centering devices may be fastened to the casing to assure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and steam-cleaned prior to installation.

After setting the casing inside the hollow stem, sand or gravel filter material is poured into the annular space to fill from the bottom of the boring to 1 foot above the slotted interval. A 1 to 2 foot thick bentonite plug is placed above the filter material to prevent the grout from infiltrating down into the filter material. Neat cement, containing about 5% bentonite, is then tremied into the annular space from the top of the bentonite plug to the surface. A lockable PVC cap is placed on each wellhead. Traffic-rated flush-mounted steel covers are installed around wellheads for wells in parking lots and driveways, while steel stove pipes are usually set over wellheads in landscaped areas.

Standard Operating Procedures

WELL DEVELOPMENT

Wells are developed to remove residual drilling materials from the wellbore, and to improve well performance by removing any fine material in the filter pack that can pass from the formation into the well. Well development is performed in accordance with California Regional Water Quality Control Board (RWQCB) procedures described in the Leaking Underground Fuel Tank (LUFT) Field Manual, the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, and local regulatory guidelines.

Well development techniques include pumping, bailing, surging, swabbing, jetting, flushing, and airlifting. During well development a minimum of three well volumes are evacuated from the well to permit formation water to move silts and particles into the well for removal. After allowing pH, specific conductivity, temperature and sediment content of the water to stabilize the well may be sampled. All development water and rinseate is collected for temporary storage in labeled 55 gallon, DOT 17-H containers or proper storage tanks, and is then disposed of properly depending on analytical results. To assure that cross-contamination does not occur between wells during development, all development equipment is either steam cleaned or cleaned using Alconox and rinsed twice with de-ionized water.

Standard Operating Procedures

MONITORING WELL SAMPLING

Prior to groundwater sampling, initial water level and floating liquid hydrocarbon measurements are recorded for each well. Each well is sounded for depth to ascertain if silting has occurred and to verify the actual depth below ground surface. These measurements are used to calculate the volume for each well. At this time, all non-dedicated pumping and sampling supplies are washed with an Alconox solution, rinsed with clean water, and final rinsed with either distilled or deionized water to prevent any cross contamination from other sampling events.

Each well is purged by evacuating a minimum of three well-casing volumes of groundwater from the well. The well water may be evacuated either by bailing, or pumping. Any of the following may be used for bailing: a dedicated pvc bailer, sterile disposable polyethylene bailer, or a stainless steel bailer. For pumping the groundwater out of the well, a downhole impeller type pump (dedicated or removable with PVC tubing), a downhole dedicated bladder pump, or a surface peristaltic pump is used.

After three to four well volumes are pumped, each well is permitted to recharge to at least 80% of original capacity or for two hours; whichever occurs first. The water is then measured to verify whether the well has stabilized. Stabilization is determined by measuring the parameters of pH; temperature; and electrical conductivity. Stabilized measurements indicate that formation water has entered the well. When two subsequent measurements of these three parameters are within 10% of each other, the well is considered stabilized and is ready to be sampled.

The samples are collected using a new polyethylene bailer with a bottom siphon and nylon cord. The bailers are disposable, and therefore, never reused. The groundwater sample is visually inspected for the presence of free product in the sampling bailer. Agitation is minimized during sample retrieval to prevent aeration during the transfer from the well to the laboratory prepared sample containers. Duplicate water samples are collected from the well and siphoned into three, 40 ml, VOA, septum top vials, with additional 950 ml samples collected in an amber glass bottles or polyethylene bottles depending on the analyses to be performed. The VOA vials are filled completely, leaving no headspace, and are sealed with Teflon-lined lids. All samples are labeled, chilled to 0° C in an ice chest, and sent to a California State Certified hazardous materials testing laboratory under chain-of-custody documentation.

All groundwater samples are collected in accordance with California Regional Water Quality Control Board (RWQCB) procedures described in the Leaking Underground Fuel Tank (LUFT) Field Manual, the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, and local regulatory guidelines.

Standard Environmental Protection Agency (EPA), San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), and Department of Health Services (DHS) methodologies for sampling and analyses are routinely utilized.

Chain of Custody documentation accompanies all samples to the laboratory. A copy of the Chain of Custody documentation is attached to the Certificate of Analysis.

Monitor well purge water is properly stored and labeled on site in DOT 17-H containers pending off site disposal.

ARTESIAN ENVIRONMENTAL CONSULTANTS

Standard Operating Procedures

Continuous Coring Tool-Soil Sampling

Continuous soil cores will be obtained by Artesian Environmental Consultants (Artesian), a licensed drilling company (C-57: 624461) located in San Rafael, California. Artesian uses a continuous coring system to obtain soil cores for lithologic, hydrologic and possible chemical analyses. The Artesian drilling system uses a portable, electric roto-hammer and continuous sampling tools to collect continuous cores.

The 1-inch diameter stainless steel continuous coring tool is driven continuously for four feet using an impact rotary hammer. As the sampler is advanced, the soil samples are collected in approximately 0.75-inch diameter nonreactive PETG plastic liners. The soil sampler is then extracted from the borehole. The transparent liner containing the soil sample is removed from the sampler. Upon removal from the sampler, the entire core is visually inspected for staining and logged by the geologist or engineer. The sampler is then refitted with a new transparent sampling tube and re-inserted into the borehole. The sampler is driven an additional three feet to a total depth of seven feet below ground surface and extracted from the borehole. This procedure is repeated to the total depth of the boring. The six inches of the sample tube selected for analyses are cut off and sealed with Teflon tape and plastic end caps. Each soil sample is then hermetically sealed in a zip-lock plastic bag, labeled and stored and transported in a refrigerated environment of crushed ice under chain-of-custody procedures to a state certified laboratory.

The above mentioned procedures minimize the potential for cross-contamination and volatilization of volatile organic compounds (VOC) prior to chemical analysis. The sampler is rinsed with Alconox detergent between samples and steam-cleaned with all the other drilling