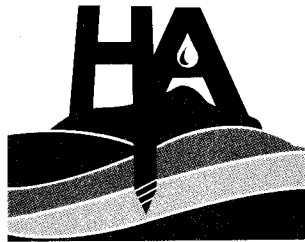


ENVIRONMENTAL
PROTECTION

00 APR 14 PM 4:26



HAGEMAN-AGUIAR, INC.

*Environmental & Water Resources Engineering
Groundwater Consultants*

April 13, 2000

**Larry Seto
Alameda County Environmental Health
1131 Harbor Bay Parkway
2nd Floor
Alameda, CA 94502**

**Re: Pacific Cryogenic
2311 Magnolia Street
Oakland, CA.**

Dear Mr. Seto:

The following information is provided in response to your letter dated March 15, 2000. In that letter you requested additional information for the preparation of the case closure. A copy of your letter is attached for reference.

- 1) **Manifest for Underground Tanks:** A copy of manifest #88228617 is attached. This manifest covers the disposal of all three former underground tanks. The former 8,000 gallon Diesel tank was erroneously listed on this manifest as a Gasoline tank.

- 2) **Manifest for Soil Disposal:** Copies of the seven Non-Hazardous Special Waste Manifests for the disposal of 126 cubic yards of soil are attached. The soil was transported to the BFI Vasco Landfill in Livermore, CA.

3) **Logs for Wells MW-2 and MW-3:** Hageman-Aguiar, Inc., began work at the site in April 1992. At that time, existing wells MW-2 and MW-3 were found to be only partially completed. That is to say, a bentonite seal was obvious on top of the sand pack for each of the wells, but no cement seal or well box was present. Hageman-Aguiar, Inc., subsequently completed the well constructions by setting appropriate monitoring well boxes and then sealing up to the surface with cement grout.

At the time that Hageman-Aguiar, Inc., began work at the site, Aldo Guidotti informed us that the wells were installed by Bernabe and Brinker, Inc., with the boreholes logged by an independent geologist. According to Mr. Guidotti, Bernabe and Brinker had since been discharged as the consultant and the independent geologist had not been heard from since. The report of the first "round" of groundwater sampling is found in a report by Bernabe and Brinker, dated March 20, 1992. A copy of this report is provided. No information regarding the lithology or well construction is provided in the report.

The boring logs and well construction information for wells MW-2 and MW-3 are not available. In terms of probable borehole lithology, reference should be made to the attached cross-section for the subsequent soil excavation project. It is still uncertain, however, exactly how the two monitoring wells are screened.

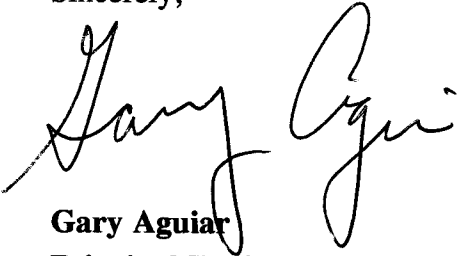
4) **Copy of Progressive Report :** A copy of the progressive report by Geo-Environmental Technology dated November 20, 1990, is provided.

5) **Groundwater Analyticals for VOC's:** No groundwater samples have ever been analyzed for either chlorinated solvents or any other VOC's.

6) **Groundwater Samples near Former Diesel Tank:** Reference should be made to the "*Quarterly Groundwater Sampling Report and Report of Subsurface Investigation*" by Hageman-Aguiar, Inc., dated December 8, 1993. Copies of Figures 5 and 6 from this report are provided. Although "hydropunch" #3 was located approximately 120 feet away from the tank, this location is more-or-less down-gradient.

If you have any questions or require further information, please call me at (510)620-0891.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary Aguiar". The signature is fluid and cursive, with the first name "Gary" and last name "Aguiar" clearly distinguishable.

Gary Aguiar
Principal Engineer

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

March 15, 2000

ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION (LOP)

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577

(510) 567-6700

FAX (510) 337-9335

Mr. Gary Aguiar
Hageman-Aguiar, Inc.
11100 San Pablo Avenue
Suite 200-A
El Cerrito, CA 94530

RE: Pacific Cryogenic, 2311 Magnolia Street, Oakland, CA 94607

Mr. Aguiar:

I am preparing the case closure summary for the above site. Please submit the following information and documents to me to assist me in my efforts to close this case.

- ✓1) Copy of the manifest for disposal of the underground tanks removed in June & July 1989
- 2) Copy of the manifest for disposal of the impacted soil
- 3) Copy of the drilling log and well construction for MW-2 and MW-3 installed sometime in 1991
- ✓4) Copy of Progressive Report dated 11-20-90 from Geo-Environmental
- 5) Copy of all groundwater analytical for VOC's.
- 6) Copy of any groundwater sample taken near and/or downgradient from the former diesel tank location. Benzene was detected in the groundwater at a concentration of 6.3 ppb in a water sample taken during tank removal.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,



Larry Seto

Sr. Hazardous Materials Specialist

Cc: Aldo Guidotti, Guidotti and Lee, One Bates Blvd., Suite 300,
Orinda, CA 95663

Files

Item #1: Manifests for Underground Tanks

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

88228611
IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA10000120000600001		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 MR. ALDO GUIDOTTI P. O. Box 3042 Oakland, CA 94609						A. State Manifest Document Number 88228617			
4. Generator's Phone 515 652-0772						B. State Generator's ID			
5. Transporter 1 Company Name H & H Ship Service Company			6. US EPA ID Number CA10004771168			C. State Transporter's ID 003750		D. Transporter's Phone (415) 543-4035	
7. Transporter 2 Company Name						E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address H & H Ship Service Company 220 China Basin Street San Francisco, CA 94107						10. US EPA ID Number CA10004771168		G. State Facility's ID CA10004771168	
						H. Facility's Phone (415) 543-4035			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a. RESIDUE GASOLINE TANK (CALIFORNIA ONLY REGULATED WASTE)					0101	TIP	015000	P	State 512 EPA/Other
b. RESIDUE GASOLINE TANK (CALIFORNIA ONLY REGULATED WASTE)					0101	TIP	010000	P	State 512 EPA/Other
c. RESIDUE WASTE OIL TANK (CALIFORNIA ONLY REGULATED WASTE)					0101	TIP	010500	P	State 512 EPA/Other
d.									State EPA/Other
J. Additional Descriptions for Materials Listed Above PUMPED OUT 0,000, 10000 and 500 gallon tanks last containing gasoline and waste oil.						K. Handling Codes for Wastes Listed Above			
						a.		b.	
						c.		d.	
15. Special Handling Instructions and Additional Information APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.									
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 DAVID WHITFIELD				Signature <i>David Whitfield</i>		Month Day Year 10 6 3 0 8 9			
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name KEVIN E. JOHNSON				Signature <i>Kevin E. Johnson</i>		Month Day Year 10 6 3 0 8 9			
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			

Item #2: Manifests for Soil Disposal

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name PACIFIC OXYGEN Generating Location PACIFIC OXYGEN
 Address 2311 MAGNOLIA STREET Address 2311 MAGNOLIA STREET
OAKLAND, CA OAKLAND, CA

Phone No. 5 1 0 - 2 5 4 3 4 5 0 Phone No. 5 1 0 - 2 5 4 3 4 5 0
 BFI Waste Code C A 4 0 5 1 1 2 2 9 3 0 2 9 0 2

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
SPECIAL WASTE SOIL	1	8	0	1	T

- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name HAGEMAN - AGUIAR, INC. Signature [Signature] Shipment Date 1 20 7 9 3

TRANSPORTER

Truck No. 210 Phone No. 510 783 2981
 Transporter Name TRIDENT TRUCKING Driver Name (Print) MICHAEL CAMINO
 Address 23422 CLAWITER Vehicle License No./State 9C17958
HAYWARD, CA Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 1 20 7 9 3 Driver Signature [Signature] Delivery Date 1 20 7 9 3

DESTINATION

Site Name _____ Phone No. _____
 Address _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature [Signature] Receipt Date 1 20 7 9 3

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name PACIFIC OXYGEN

Generating Location PACIFIC OXYGEN

Address 2311 MAGNOLIA STREET

Address 2311 MAGNOLIA STREET

OAKLAND, CA

OAKLAND, CA

Phone No. 510-2543450

Phone No. 510-2543450

RF Waste Code CA 405 112293

02902

Description of Waste

Containers

Type

SPECIAL WASTE SOIL

Quantity

Units

No.

Type

D - Drum

C - Carton

B - Bag

T - Tank

P - Pounds

Y - Yards

O - Other

18 Y 02 T

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly classified, classified and packaged, and is in proper condition for transportation according to applicable regulations.

AGUIAR - AGUIAR, INC.

Signature

[Signature]

Shipment Date

120793

TRANSPORTER

Trailer No. 200/201

Phone No. 510-783-2891

Transporter Name TRIDENT TRUCKING

Driver Name (Print) Tommy Merino

Address 23422 CLAWITER RD

Vehicle License No./State 015379 WY3085

HAYWARD, CA

Vehicle Certification

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Signature

Shipment Date

120793

Driver Signature

[Signature]

Delivery Date

120793

DESTINATION

Site Name

Phone No.

Address

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Signature of Authorized Agent

Signature

[Signature]

Receipt Date

120793

PASS CODE

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name PACIFIC OXYGEN Generating Location PACIFIC OXYGEN
 Address 2311 MAGNOLIA STREET Address 2311 MAGNOLIA STREET
OAKLAND, CA OAKLAND, CA

Phone No. 510-2543450 Phone No. 510-2543450

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
<u>CA 405 112293 02902</u>	<u>SPECIAL WASTE SOIL</u>	<u>18</u>	<u>Y</u>	<u>03</u>	<u>1</u>	<u>D</u> Drum <u>C</u> Carton <u>B</u> Bag <u>T</u> Truck <u>P</u> Pounds <u>Y</u> Yards <u>O</u> Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Name of Authorized Agent WAGNER - AGUIAR, INC. Signature [Signature] Shipment Date 120793

TRANSPORTER

Truck No. 204 Phone No. 310 593-2881
 Transporter Name TRIDENT TRUCKING Driver Name (Print) MILT MICHINA
 Address 23427 CLAWITER RD. Vehicle License No./State IN319CC CA
HAYWARD, CA Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.
 Driver Signature [Signature] Shipment Date 120793 Driver Signature [Signature] Delivery Date 120793

DESTINATION

Site Name _____ Phone No. _____
 Address _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 Name of Authorized Agent _____ Signature _____ Receipt Date _____

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name PACIFIC OXYGEN
 Address 2311 MAGNOLIA STREET
OAKLAND, CA

Generating Location PACIFIC OXYGEN
 Address 2311 MAGNOLIA STREET
OAKLAND, CA

Phone No. 510-2543450

Phone No. 510-2543450

Waste Code CA 405 112293
 Description of Waste

Quantity 18 Units Y Containers No. 04 Type T

SPECIAL WASTE SOIL

Quantity	Units	Containers No.	Type
<u>18</u>	<u>Y</u>	<u>04</u>	<u>T</u>

- D Drum
- C Carton
- B Bag
- T Truck
- P Pounds
- Y Yards
- O Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Authorized Agent Name VALENTIN AGUIAR, INC.

Signature *Valentin Aguiar*

Shipment Date 120793

TRANSPORTER

Truck No. 210
 Transporter Name TRIDENT TRUCKING
 Address 23922 CLAWITER RD
IRVING, CA

Phone No. 510-503-2281
 Driver Name (Print) MICHAEL
 Vehicle License No./State 917958 CA
 Vehicle Certification

I hereby certify that the above named material was picked up at any generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Shipment Date 120793

Driver Signature *Michael* Shipment Date 120793

DESTINATION

Site Name _____ Phone No. _____
 Address _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Authorized Agent _____ Signature _____

Receipt Date 120793

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name PACIFIC OXYGEN Generating Location PACIFIC OXYGEN
 Address 2311 MAGNOLIA STREET Address 2311 MAGNOLIA STREET
OAKLAND, CA OAKLAND, CA

Phone No. 510-2543450 Phone No. 510-2543450
 EPA Waste Code EA 405 112293 02902

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
SPECIAL WASTE SOIL	18	Y	02		Drum
					Carton
					Bag
					Truck
					Pounds
					Yards
					Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name WALTER AGUIAR, INC. Signature [Signature] Shipment Date 120993

TRANSPORTER

Truck No. 200/201 Phone No. 510-793-2851
 Transporter Name TRIDENT TRUCKING Driver Name (Print) Tommy Aguilar
 Address 23447 CLAWNER RD Vehicle License No./State SP-45539/023554
Hayward, CA Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Generator Signature [Signature] Shipment Date 120793 Driver Signature [Signature] Delivery Date 120793

DESTINATION

Site Name _____ Phone No. _____
 Address _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Receiver Authorized Agent Name _____ Signature _____ Receipt Date _____

No. **913549**

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name PACIFIC OXYGEN Generating Location PACIFIC OXYGEN
 Address 2311 MAGNOLIA STREET Address 2311 MAGNOLIA STREET
OAKLAND, CA OAKLAND, CA

Phone No. 510-2543450 Phone No. 510-2543450

BFI Waste Code	Description of Waste	Quantity	Units	Containers		Type
				No.	Type	
<u>C A</u>	<u>4 0 5 1 1 2 2 9 3</u>	<u>1 8</u>	<u>Y</u>	<u>0 6</u>	<u>1</u>	<u>D Drum</u>
						<u>C Carton</u>
						<u>B Bag</u>
						<u>T Truck</u>
						<u>P Pounds</u>
						<u>Y Yards</u>
						<u>O Other</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name MAGNAN - AGUIAR, INC. Signature [Signature] Shipment Date 12 0 7 9 3

TRANSPORTER

Truck No. _____ Phone No. 583-2821
 Transporter Name TRIDENT TRUCKING Driver Name (Print) MIG MUEHNO
 Address 23422 CLAWITER RD Vehicle License No./State IN31986 SA
HAYWARD, CA Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 12 0 7 9 3 Driver Signature [Signature] Delivery Date 12 0 7 9 3

DESTINATION

Site Name _____ Phone No. _____
 Address _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Signature of Authorized Agent [Signature] Signature [Signature] Receipt Date 12 0 7 9 3

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name PACIFIC OXYGEN Generating Location PACIFIC OXYGEN
 Address 2311 MAGNOLIA STREET Address 2311 MAGNOLIA STREET
OAKLAND, CA OAKLAND, CA
 Phone No. 510-2543450 Phone No. 510-2542350
 Waste Code CA 405 112293 02902

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
SOIL	18	1	13		Drum
					Carton
					Bag
					Truck
					Pounds
					Yards
					Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

HAGEMAN - AGUIAR, INC.

[Signature]
 Signature

07/93
 Shipment Date

TRANSPORTER

Truck No. _____ Phone No. 588-29371
 Transporter Name TRIDENT TRUCKING Driver Name (Print) MILT MUCKER
 Address 23477 CRAWFORD RD. Vehicle License No./State 1N31986
WAYWARD, CA Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature]
 Shipper Signature 120793
 Shipment Date

[Signature]
 Driver Signature 120793
 Delivery Date

DESTINATION

Site Name EPI YASCO LANDFILL Phone No. 510-4428149
 Address _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Signature _____
 Signature

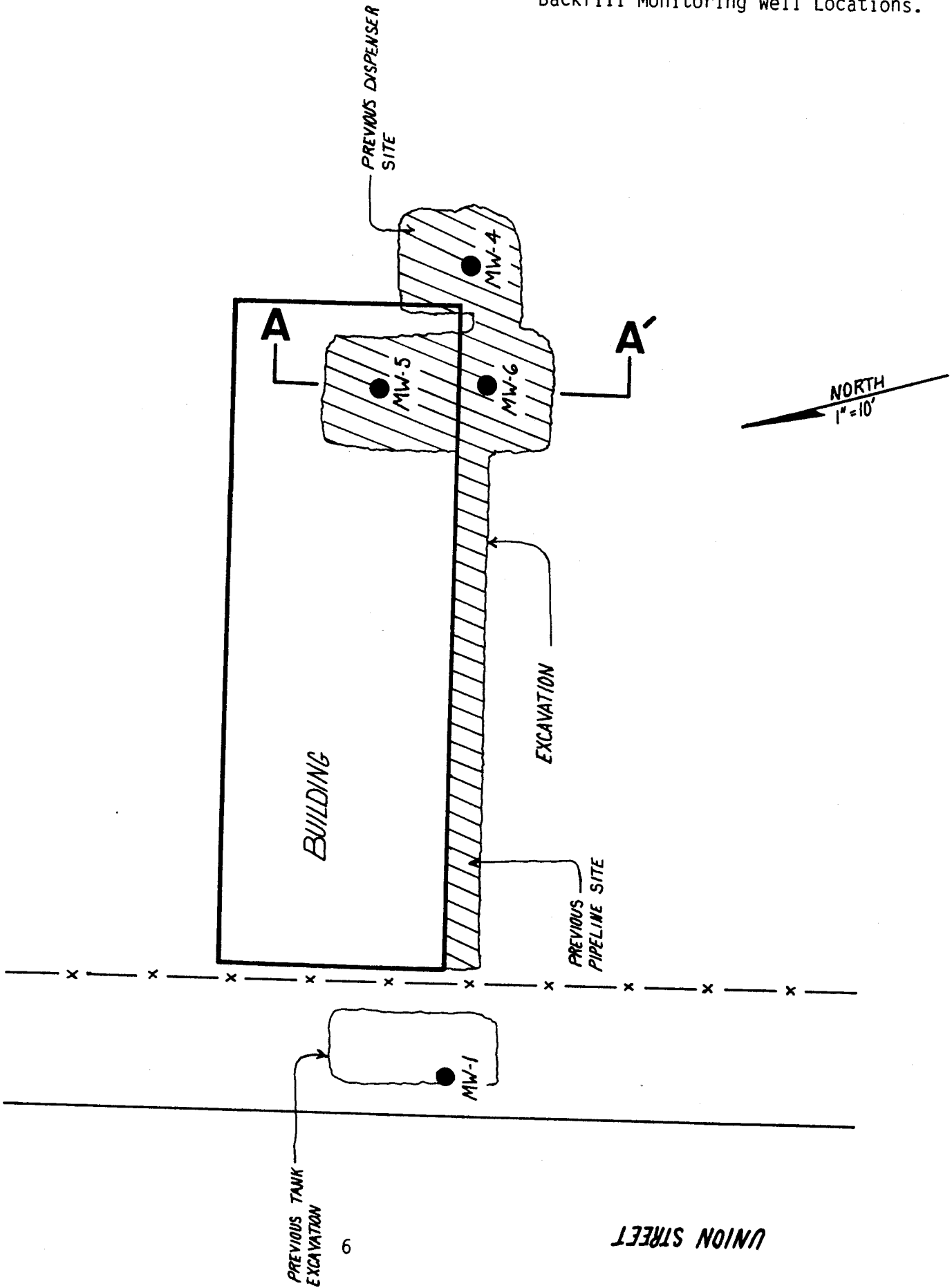
120793
 Receipt Date

PASS CODE _____

Item #3:
Subsurface Lithology
Bernabe and Brinker Report

MW-3

FIGURE 3.
Backfill Monitoring Well Locations.



PREVIOUS TANK EXCAVATION

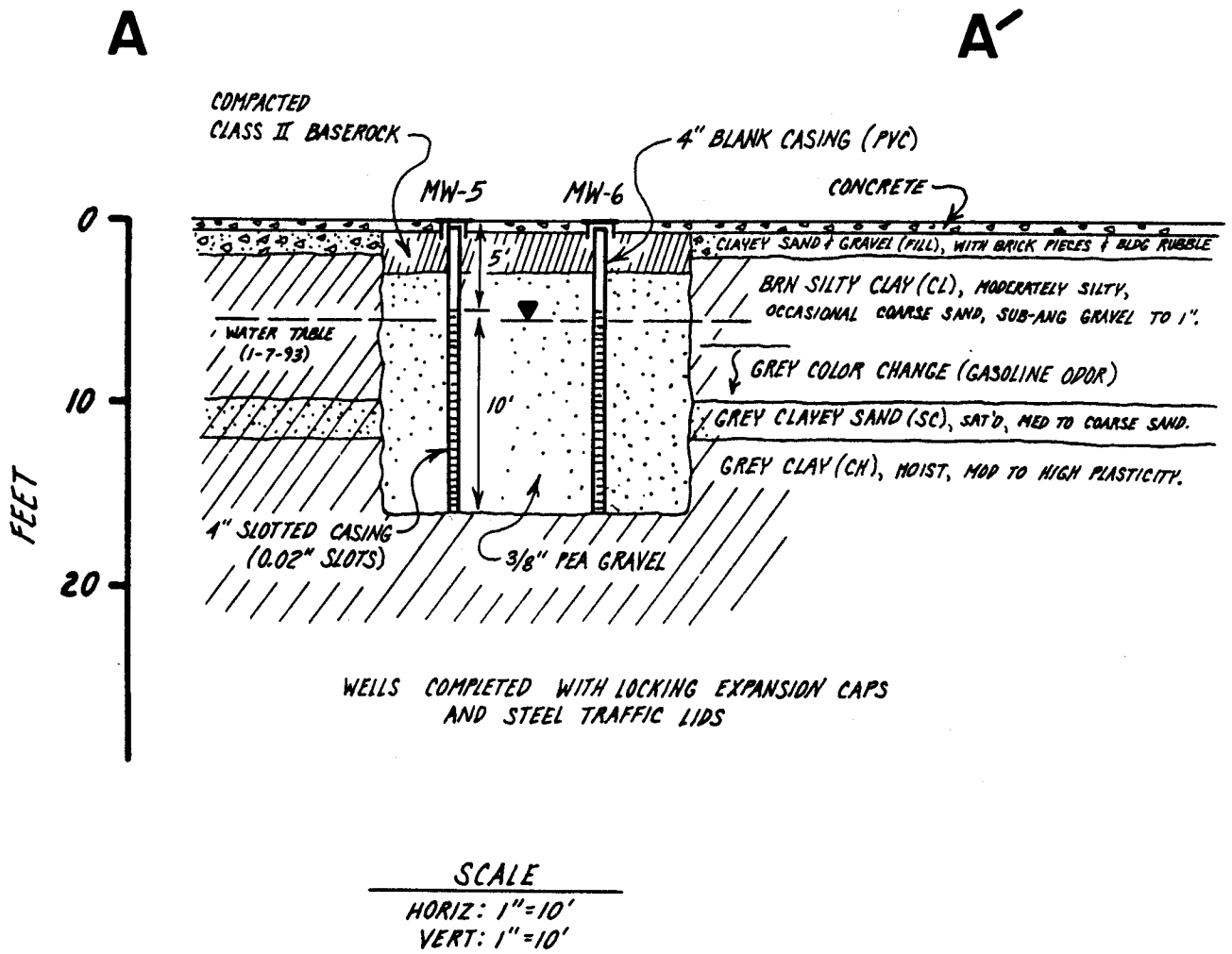


FIGURE 4.
Section A-A'.



BERNABE AND BRINKER INC.

General Engineering Contractor • Hazardous Substances Removal • License #610617

1281 - 30th Street
Oakland, California 94608

TEL: 510 • 451 • 3482
FAX: 510 • 836 • 2635

March 20, 1992

Mr. Aldo P. Guidotti
One Bates Blvd.,
P.O. Box 778
Orinda, CA 94563

Subject: Results of Groundwater Sampling and Analyses,
for site located between 2311 Magnolia Street
and 2210 Union Street, Oakland.

Dear Mr. Guidotti,

As per our agreement, the following tasks were carried
out at the subject site in March of this year:

- 1) Establish groundwater levels and elevations at the
three existing wells on the site as generally required as
part of the overall site monitoring;
- 2) Sampling and analyses of the groundwater from the
three wells on site. The water sample from each well
were tested for TPH as gasoline with BTEX and TPH as
diesel fuel;
- 3) Interpretation of the analytical data and preparation
of a letter report.

GROUNDWATER GRADIENT

The groundwater levels measured for the three wells are
listed below:

WELL	DEPTH	RELATIVE ELEVATION
MW-1	2.76	6.44
MW-2	6.17	3.07
MW-3	6.93	3.00

The depth to groundwater was measured in each well using
an electronic probe. The measurement was to a mark on
the north side of the top of the casing and was measured
to a hundredth of a foot. The relative elevation for the
top of the casing was established for each well by
surveying. The elevation are not related to any other
datum.

BERNABE AND BRINKER INC.

March 20, 1992

Re: 2311 Magnolia St. Oakland, California

Attn: Mr. Aldo Guidotti

The data indicate a steep southward gradient that is a typical of the natural gradient in the site area. This may be the results of a continuing source of shallow water in the area of MW-1 such as a leaking pipe or may be the result of a perched condition.

RESULTS OF GROUNDWATER ANALYSES

A water sample was collected from each of the three wells, MW-2 and MW-3 had to be cleaned of bentonite and other debris before they could be sampled. Each well was purged of five to ten gallons of water before the sample was collected. The samples were collected by bailer and put into bottles and vials. The samples were kept in a cooled ice chest and transported to a State Certified Laboratory under chain of custody control.

The certified results are presented in Appendix A of this report. They indicate that both MW-1 and MW-3 contain elevated levels of diesel, gasoline and BTEX which exceed the action levels generally enforced by both the County Department of Environmental Health and the State RWQCB. The sample from MW-2 was nondetected for the analyses that were done.

Locks were placed on each well after the sampling was completed. It was noted that wells MW-2 and MW-3 are not set in surface boxes and surface water was flowing into the space around the casing of MW-3.

CONCLUSIONS AND RECOMMENDATIONS

A site plan was not available for plotting the three existing wells. We do not have any data regarding the installation of MW-2 (western) and MW-3 (eastern) which are the two wells on the property. MW-1 is the sidewalk on Union Street.

The next step in these types of situation is generally to better characterize the extent of the groundwater contamination on the site and to assess whether or not these are any remaining sources of contamination still present. It is recommended that a work plan be prepared to address the work needed to characterize the site. I would be happy to discuss this with you in more detail.

BERNABE AND BRINKER INC.

March 20, 1992

**Re: 2311 Magnolia St., Oakland, California
Attn: Mr. Aldo P. Guidotti**

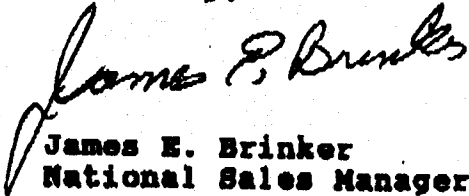
The above report was prepared and submitted to our company by our Registered Geologist, Mr. John Alt of Epigene International and Campbell Analytical, Inc.

Enclosed are the following:

- 1. The results of 3 samples from your 90-021; Magnolia Street project.**
- 2. A QC report for the samples.**
- 3. A copy of the chain of custody**

Thank you for your business and I look forward to working with you again.

Sincerely,


**James E. Brinker
National Sales Manager**

JEB/gfb

Page 3 of 3

	Client Project ID: 90-021; 2311 Magnolia St	Date Sampled: 03/04/92
		Date Received: 03/04/92
		Date Extracted:
		Date Analyzed: 03/05/92

Low Boiling Point TPH* (as Gasoline) and BTEX*								
POHS LUFT procedure: EPA method 8012, modified 8012 & 8013								
Lab ID	Client ID	Matrix	TPH(O)†	Benzene	Toluene	Ethyl Benzene	Xylenes	% Rec. Surrogate
12121	MW 1	W	460,a	120	9.0	16	44	96
12122	MW 2	W	ND	ND	ND	ND	ND	98
12123	MW 3	W	14,000,a	6200	60	110	740	97
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.3	0.3	0.3	0.3	0.3	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L and soils in mg/kg

†cluttered chromatogram; sample peak co-elutes with surrogate peak

‡The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gas compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) one to a few isolated peaks predominate; f) gasoline range compounds together with higher boiling point (diesel range) compounds; g) diesel range compounds predominate.


 Edward Hamilton, Lab Director

McCAMPBELL	ANALYTICAL INC.	110 2nd Avenue South, #157, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622
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	Client Project ID: 90-021; 2311 Magnolia St	Date Sampled: 03/04/92
		Date Received: 03/04/92
		Date Extracted: 03/07/92
		Date Analyzed: 03/07/92

Medium Boiling Point TPH (as Diesel) *
DOHS LUFT procedure modified EPA method 3510 or 3510

Lab ID	Client ID	Matrix	TPH(D) †
12121	MW 1	W	590,c
12122	MW 2	W	ND
12123	MW 3	W	360,c
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	
	S	10 mg/kg	

* water samples are reported in ug/L and soils in mg/kg

† The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately diesel compounds; b) diesel range compounds together with gasoline range compounds; c) oil / range compounds together with gasoline range compounds; d) gasoline range compounds predominate; e) medium boiling point pattern that does not match diesel; f) peaks elute in the diesel range but no pattern is present; g) one to a few isolated peaks predominate.

EH Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. 110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tel: 510-798-1620 Fax: 510-798-1622

QC REPORT

Date: 03/06-03/09/92

Matrix: water

Analyte	Concentration (ug/L)			Amount Spiked (ug/L)	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.0	103.2	100.2	102	101	98	3.0
Benzene	0.0	11.4	11.3	10	114	113	0.9
Toluene	0.0	10.7	10.8	10	107	105	1.9
Ethyl Benzene	0.0	10.9	10.7	10	109	107	1.9
Xylenes	0.0	32.8	32.0	30	108	107	1.6
TPH (diesel)	0	436	435	600	73	72	0.3
TRPH (oil & grease)	N/A	N/A	N/A	1000	N/A	N/A	N/A

$\% \text{ Rec} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$

$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$

CHAIN OF CUSTODY RECORD

SHIPMENT NO. _____

PAGE 1 OF 1

DATE 3/4/92

PROJECT NAME: 2311 Magnolia St.

PROJECT NO.: 90-021

Sample Number	Location	Type of Sample		Type of Container	Type of Preservation		Analysis Required
		Material	Method		Temp	Chemical	
MW 1		groundwater	(by hand)	250 ml vials			TPH Gasoline TPH Diesel
MW 2							
MW 3							

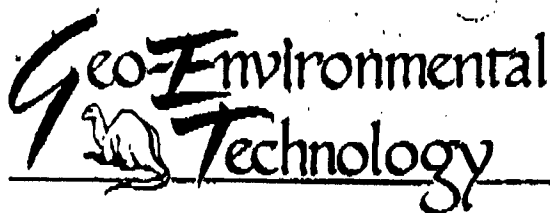
No. 12121
No. 12122
No. 12123

Total Number of Samples Shipped: _____		Sampler's Signature: <i>[Signature]</i>	
Relinquished By: Signature: <i>[Signature]</i> Printed Name: JOHN A. HITE Company: ERIGONE Reason: analysis	Received By: Signature: <i>[Signature]</i> Printed Name: EUGENE SODEN Company: BECKMAN & BREWSTER	Date: 3/4/92 Time: 3:50	
Relinquished By: Signature: <i>[Signature]</i> Printed Name: EUGENE SODEN Company: BECKMAN & BREWSTER Reason:	Received By: Signature: <i>[Signature]</i> Printed Name: HAMILTON Company: HAIT	Date: 7/12/92 Time: 7:05	

REMARKS:
MW 2 & MW 3 contain abundant silt which could not be cleared during the pumping.

Special Shipment / Handling / Storage Requirements:
preservative, unknown
100°C
no headspace

Item #4: Geo-Environmental Technology Report



260 Cristich Lane
Campbell, CA 95008

(408)559-1220

November 20, 1990
Project No. 9070

Mr. Aldo Guidotti - Trustee
P.O. Box 778
Orinda, CA. 94563

PROGRESSIVE REPORT
Groundwater Investigation
2311 Magnolia & 2210 Union St.
Oakland, CA. 94609

Introduction

This letter presents the findings of the investigation of subsurface conditions conducted by Geo-Environmental Technology (GET), at the above-referenced site. This investigation has been performed in accordance with the guidelines of the Alameda County Flood and Water Conservation District, Alameda County Health Care Services, Department of Environmental Health and the Regional Water Quality Control Board. The purpose of this work was to investigate the extent of any groundwater contamination beneath the subject property. The completed work includes:

1. The drilling of one monitoring well and the collection of soil samples from the borings.
2. The proper development and sampling of groundwater from these wells.
3. Providing for the laboratory analysis of the soil and water samples from the soil borings and groundwater monitoring wells.
4. This report of findings.

Site Location

The site is located at 2311 Magnolia St and 2210 Union St. in Oakland, California. The site location is shown on Figure 1.

Project No. 9070

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Background

The subject site, previously owned by Mr. Bill Josephian, was the location for Pacific Oxygen Company from approximately 1940 to 1984. The property is currently owned by the estate of Josephian. Portions of the property are being used for oxygen tank repair and storage, whereas the original plant has not been operated for 8 years.

On June 30, and July 12, 1989, Geo-Environmental Technology removed three underground storage tanks from the subject site. An 8000 gallon steel underground storage tank containing diesel fuel was removed on June 30, 1989, and both a 1000 gallon steel underground storage tank containing gasoline and a 550 gallon steel underground storage tank containing waste oil were removed on July 12, 1989. Three soil samples entitled GS-1, GS-2, and GS-3 were taken from beneath the middle, north and south ends respectively of the 8000 gallon tank, two soils samples entitled GG-1 and GTP-3 were taken from beneath north and south ends respectively of the 1000 gallon tank, and one soil sample entitled GWO-1 was taken from beneath the waste oil tank. All samples were taken at depths of approximately 1.5 to 2.0 feet below the bottom of the tanks at the native soil interface.

There was no groundwater encountered during the excavation of tanks #2 and #3. Groundwater was encountered at the bottom 6 inches of tank pit #1. This water was reported to appear slightly contaminated and had a slight odor. As a result, one ground water sample was taken from the tank pit of the 8000 gallon tank.

Samples GS-1, GS-2 and GS-3 were analyzed for TPHD calculated as diesel, and for BTXE. Sample GG-1 was analyzed for TPHG calculated as gasoline, and for BTXE. (benzene, toluene, ethyl benzene, & xylenes) Sample GTP-3 was analyzed for TPHG calculated as gasoline, BTXE, and total oil and grease. Sample GWO-1 was analyzed for TPHG calculated as gasoline, TPHD calculated as diesel, total oil and grease, and EPA method 8270. Sample GWS-1 (groundwater) was analyzed for TPHD calculated as diesel, and BTXE. Chains of custody and sample results are included in Appendix B. Of the six soil samples, only the one (GWO-1) taken from below the waste oil tank revealed levels of TPH and some volatile organic compounds considered actionable under RWQCB standards. This sample contained TPHD concentrations of 270 parts per million (ppm), Toluene of 750 parts per billion, Xylenes of 1,400 parts per billion, and Xylenes of 430 parts per billion. The water sample taken from below the 8000 gallon tank in pit #1 showed no trace of contamination.

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Site Description

A site map showing the current layout of the site is presented in Figure 2. This figure shows the locations of existing structures and the former underground storage tanks, as well as adjacent streets. Site sketch maps showing the sources of the samples are shown in figures 3 and 4

Well Installation

In order to determine if site operations have impacted groundwater, GET installed one groundwater monitoring well within the tank pit excavation area. The well is within five feet of the former waste oil storage tank location in the estimated downgradient direction. The well location is shown on Figure 2 entitled Site Map and Soil Sample Plot Plan and on Figure 3 entitled Boring Log MW-1.

The soils boring was drilled using an 8-inch diameter continuous-flight hollow-stem B-57 mobile drill augur. The boring was logged by a Professional Engineer using the Unified Soil Classification System and standard geologic techniques. (See Appendix A) Soil samples for logging and chemical analysis were collected at 9', 14', and 20' depths and were entitled SB-1, SB-2 and SB-3 respectively. These samples were collected by advancing a California-modified split-spoon sampler with brass liners into undisturbed soil beyond the tip of the auger. The sampler was driven 18 inches, using a 140-pound hammer with a 30" drop. Soil samples above groundwater were retained in brass liners, capped with aluminum foil and plastic end caps, and sealed in clean glass containers for possible chemical analysis. The samples were placed on ice and transported to the laboratory accompanied by the appropriate chain-of-custody documentation. All drilling and sampling equipment was thoroughly steam-cleaned prior to utilization.

The boring for the monitoring well (appendix A) penetrated 14.5 feet through the water bearing zone to a depth of 21 feet. Permeable sand and gravel was encountered at 19.5 feet. As a result, the boring was stopped and bentonite used to seal the well between 19.5 and 21 feet. The boring was then converted to a groundwater monitoring well with the installation of a 2-inch diameter, flush-threaded Schedule 40 PVC casing and 0.020-inch factory slotted Triloc screen. 13 feet of screen was placed through the entire saturated section extending to two feet above the static water level in order to account for fluctuations in groundwater elevation. A 2 X 12 graded #3 RMC Lone Star Lapis Lustre sand pack was placed in the annular space across the

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screened interval, and extended to approximately 1 foot above the screen. A bentonite and concrete seal was placed from the top of the sand pack to the ground surface. A locking cap and protective traffic-rated vault box was installed on the top of the well.

Potentially contaminated soil cuttings and samples not retained for chemical analysis were contained in secured 55 gallon storage on-site. The storage drums were properly sealed and labeled. All drilling and sampling equipment was steam-cleaned upon completion of well installation.

Groundwater Sampling Procedure

Groundwater sampling was performed by GET using techniques approved by the Environmental Protection Agency (EPA), and the California Regional Water Quality Control Board, (RWQCB). These techniques require that:

1. Wells will be developed until the water is free of fine-grained sediments and/or until field measurements of pH, electrical conductivity, and temperature stabilize. Approximately four to ten well volumes of water will be removed during development of the well.
2. Equipment inserted into the well during development will be decontaminated by washing or steam cleaning prior to and after its use.

GET's sampling procedure consisted of first measuring the water level in the well and then checking for the presence of floating petroleum product using a clear teflon bailer. Because no free product was detected, the well was purged of four casing volumes of water. In order to ensure that a representative sample was obtained, the pH, electrical conductivity and temperature were monitored and documented on a well sampling field sheet. (See Figure 4). Using a teflon bailer, two samples entitled 9070-1 and 9070-2 were collected on 10/26/90 at 1:30 pm. They had a pH of 7.4, an electrical conductivity of .01, and a temperature of 65 degrees. Samples were placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported to the laboratory. All sampling equipment was properly decontaminated with a trisodiumphosphate, (TSP), solution followed with a tap water rinse. A field blank sample (9070-2) was prepared for quality control purposes prior to collection of groundwater samples. Potentially contaminated purge water and decontaminant rinsate was contained in secured 55-gallon storage drums on-site. The drums were properly sealed and labeled.

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Laboratory Analysis and Results

Groundwater samples and selected soils samples were analyzed by Chromalab, Inc., a state certified laboratory (E 694), for the presence of TPHD (Total Petroleum Hydrocarbons as Diesel) and BTEX (Benzene, Toluene, Ethyl Benzene, and Xylenes). This analysis was requested in order to remain consistent with previous contaminants found in the soil sampling performed beneath the waste oil tank (see page 2 paragraph 4 of this report).

The analytical results of the soil samples (SB-1, SB-2, and SB-3) revealed no detectable amounts of either TPHD or BTEX (See Appendix A). The analytical results of the groundwater sample (9070-1), reported 5400 parts per billion of TPHD, 1200 parts per billion of benzene, 18 parts per billion of toluene, 7.1 parts per billion of ethyl benzene, and 37 parts per billion of total xylenes. (See appendix B).

Conclusions

The results of the analysis of the water sample (9070-1) revealed TPHD and BTEX in excess of actionable limits set by the RWQCB. Under the guidelines as established by the California Regional Water Quality Control Board and the Alameda County Department of Environmental Health, further action will be required. This will require establishing an accurate groundwater gradient (direction of the water flow), determining the extent (dimensions) of the contamination plume, and recommending and implementing a course of action for effective remediation of the groundwater contamination.

RECOMMENDATIONS

The guidelines will require that two additional water wells be installed in order to establish the gradient. Once this is accomplished, it may then be necessary to add at least one to two wells to determine the limits of the plume of contamination.

Upon completion of these stages, an interim report concerning these findings and a work plan addressing the recommended course of action consistent with remediating the contaminated groundwater will be written and filed with the responsible agencies.

Project No. 9070

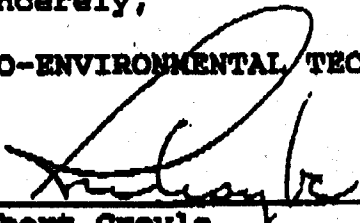
Page 6 of 6

The field work for this project is scheduled to be performed during December of 1990 and January of 1991, pending obtaining the required permits and access to the site.

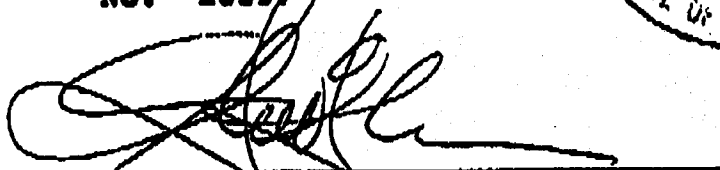
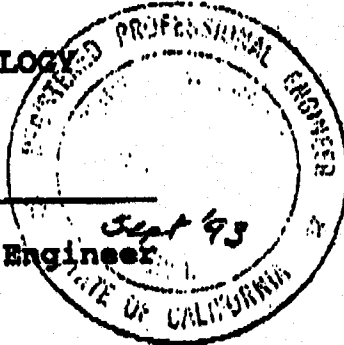
If you have any questions regarding the contents of this report, please do not hesitate to call us at (408) 559-1220.

Sincerely,

GEO-ENVIRONMENTAL TECHNOLOGY

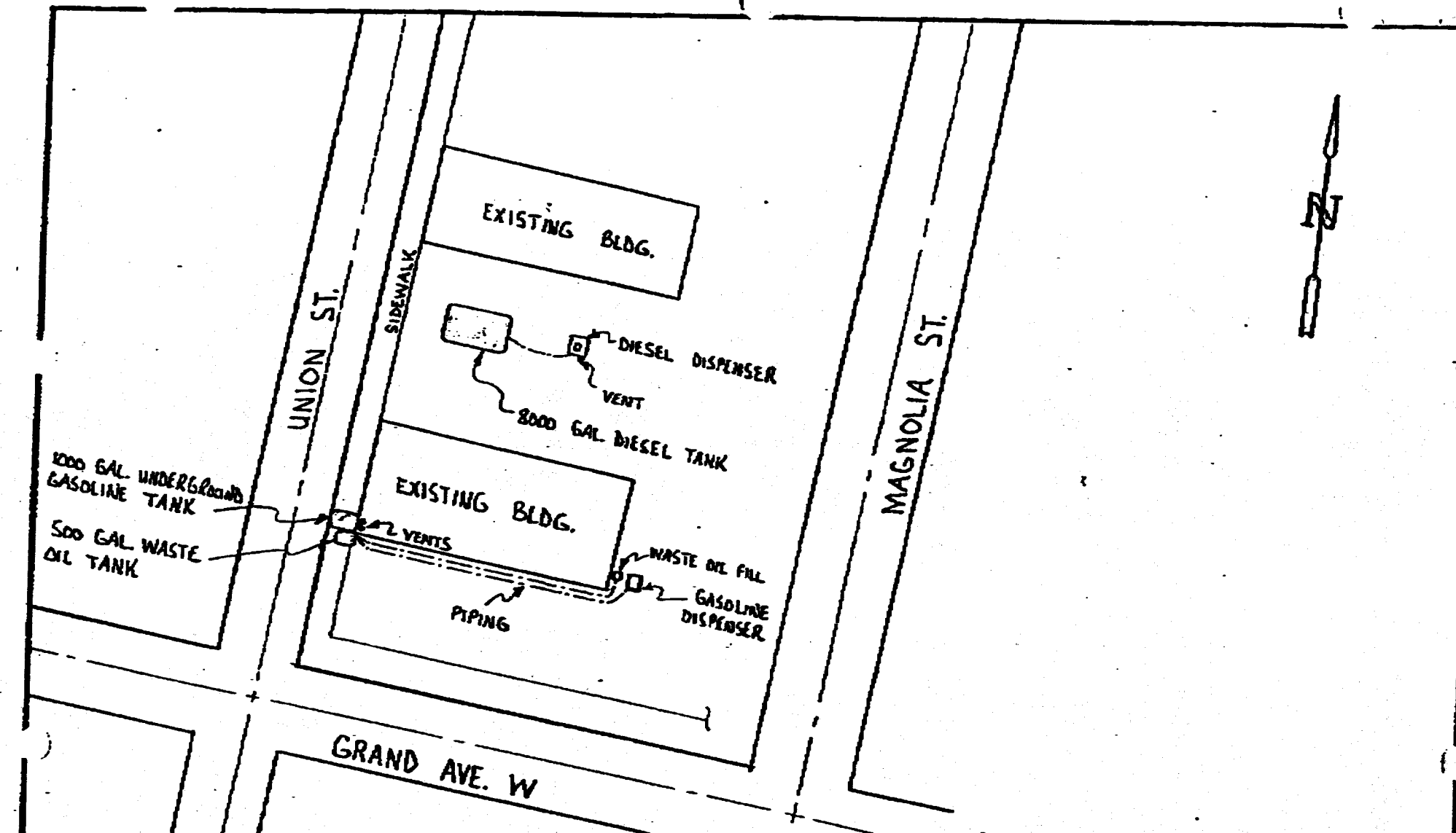


Robert Croyle
Registered Professional Engineer
No. 20397



Stuart G. Solomon
President

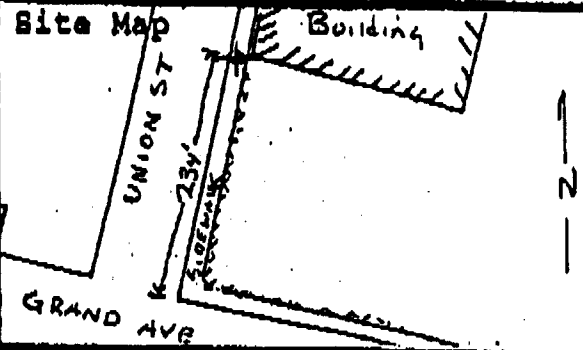
MAR-24-'92 TUE 16:23 ID:GUIDOTTI & LEE TEL NO: 415/254-6411 #667 P08



GeoEnvironmental Technology

SCALE: NONE	PLOT PLAN FOR: ALDO GUIDOTTI	DRAWN BY <i>STN</i>
DATE: 14 JUNE 89		REVISED
2311 MAGNOLIA ST. OAKLAND, CA 94607		
260 Cristich Lane Campbell, CA 95008 (408) 559-1220		PLATE 1

Client Guidotti Date 9.27.90
 Location 2210 Union St
Oakland Ca
 Driller Agua Science #487000
 Method 8" Hollow Stem Auger Mobile Drill B5
 Sampler Cal. F. 9" 140# w/ 30" Fall
 Logger B. Halsted Inspector _____



Sample Number	Depth	Blows/ft	Moisture	Depth	USCS	Description of Subsurface Materials	Completion Data
						Concrete	
						Backfill; Import soil	PORTLAND CEMENT 2" PVC SANITARY TRAIL SEAL
				5	OH	BAY MUD No Odor	3/4 BENTONITE
				6.5		WATER LEVEL	
SB-1	8 1/2-10	MAST DOWN DROVE SAMPLER	WET	10	OH	BAY MUD No Odor	#3 AMC LONG STAR LAPIS LUSTAR SAND PACK
SB-2	13 1/2-15	DRILLED w/ HAMMER, DRILLED w/ SAMPLER w/	WET	15	OH		TRIMOL 2" 1/20 SCHED PVC 15'
SB-3	19 1/2-21	ELECTRIC LINE, HEAD ELECTRIC LINE, SAMPLER w/ DRIVE	WET	20	9C	GRAVEL/SAND/MUD BOH @ 21'	2" PVC LAP BENTONITE
		LOW OVER, HEAD ELECTRIC LINE, SAMPLER w/ DRIVE					
		DUE TO LOW OVER, HEAD ELECTRIC LINE, SAMPLER w/ DRIVE					

Total Depth 19.5' Water Level 6.5' Sanitary Seal PORTLAND CEMENT 3"
 Permit # 90577 Agency Alameda Co. Flood Control/Water Conservation

Item #6: Results of Previous Investigation

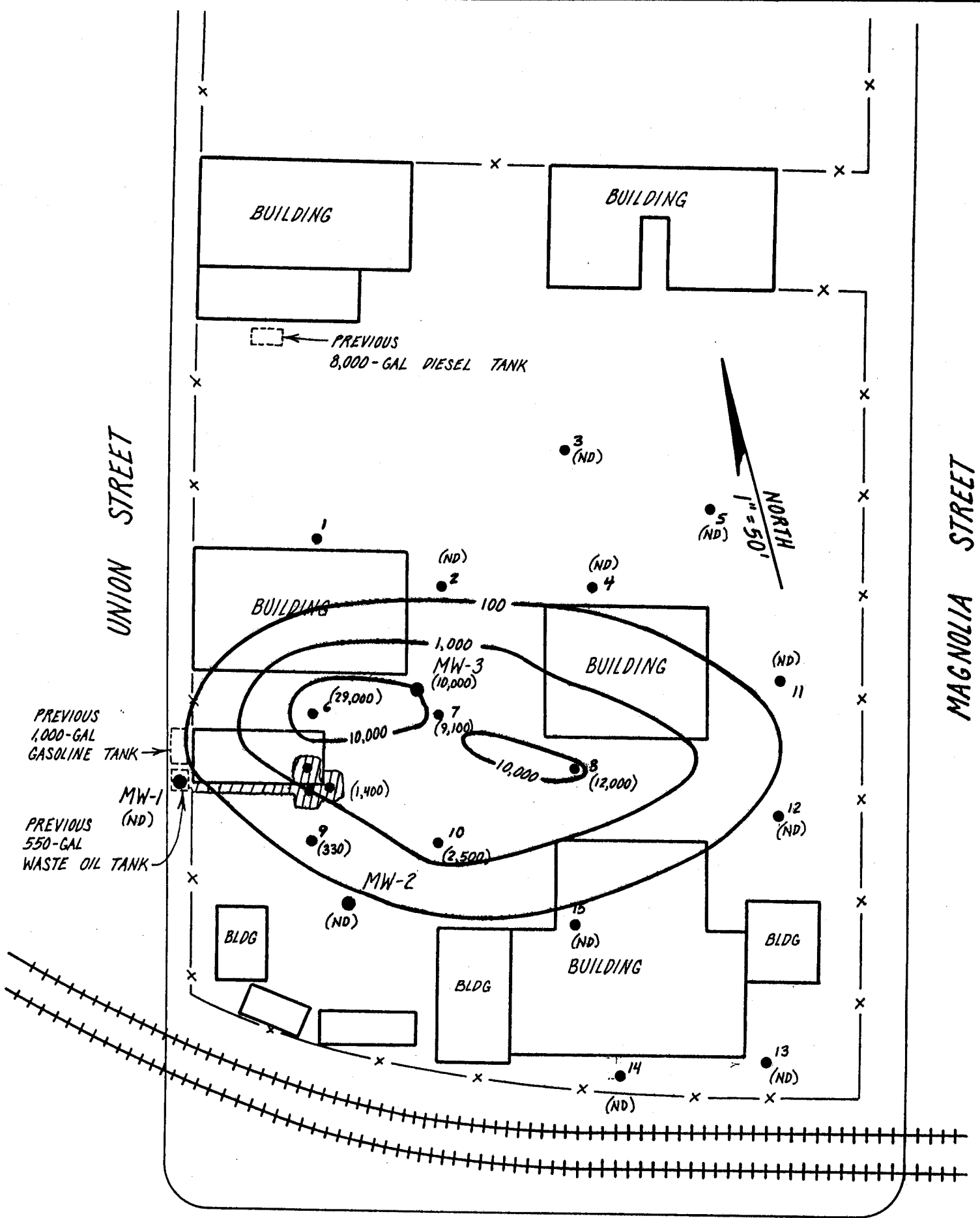


FIGURE 5. Lines of Equal Concentration of Gasoline in ug/L (ppb) in the Shallow Groundwater.

