

FILE OR

ENVELOPE

PER NO.

BC.

No. of

PLAN REVIEW

R

By Date

\$ 432.⁰⁰ Rec'd.

TS 11/13/91

By Date

By Date

 OWNER Right Away Ready Mix, Inc.

Address 401 Kennedy St.

Oakland 94606 Phone

 Contractor KTW

Address 43289 Osgood Rd.

Fremont 94539 Phone

 OTHER (Specify)

Address

Phone

 CONTACT FOR INVESTIGATION

No. 612150 Plans Rec'd.

Plans Approved

Layout Made

Rejected

Applicant Notified

Plans Returned

Permit Issued

CONSTRUCTION PROGRESS ACCEPTANCE

Pre-Plaster/drywall

Pre-Final

Final

POOL

Pre-Concrete/Gunite

Pre-Plaster

Final

EXCAVATION

Septic Tank

Absorption Field

Absorption Bed

House Sewer

FINAL

Septic Tank

Absorption Field

Absorption Bed

OTHER

U.G. TANKS

Pre-Covering

Case closed LOP

XR

REMARKS

LOCATION

2974

Vicinity Map

Project # 612150

Fee Paid 432.⁰⁰

Date 11/13/91

401 Kennedy St.
Oakland, CA 94606
RIGHT AWAY READY MIX, INC.:StID
:2974

Date	By	REMARKS	Date	By	REMARKS
10/30/91	BC	Witness initial spling under dispenser 0.5 hr	12/3/91	BC	Overfill protection box Everything was OK
11/4/91	BC	Witness respoding 1.0 hr			Review workplan & give written approval pending location of brigs/wells 0.75
11/5/91	fx	"letter" requesting a workplan due to Env Lab's results	12/18/91		Env w/ D. Glick, okayd the use of 3 picometers & the developer of the 1 into a MW in the drainage system 0.25 hr
		Note further excavation & soil results are TPHd-380 ppm			
		border wall composite (sples 2, 3, 4+5) = 210 ppm TPHd ~9' depth			
11/12/91	fx	Inspected measured piping soap test & H ₂ O level in manno box +			1.0 hr

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 4/25/94

Agency name: Alameda County-HazMat Address: 80 Swan Wy., Rm 200
City/State/Zip: Oakland Phone: (510) 271-4320
Responsible staff person: Thomas Peacock Title: Supervising HMS

II. CASE INFORMATION

Site facility name: Right Away Redi Mix, Inc.
Site facility address: 401 Kennedy St., Oakland, CA 94606
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2974

URF filing date: 4/13/94

SWEEPS No: N/A

Responsible Parties:

Geoff Henrikson

Addresses:

401 Kennedy St.
Oakland, CA 94606

Phone Numbers:

536-1900

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	12,000	diesel	still in use	NA

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: leak under the dispenser island

Site characterization complete? YES

Date approved by oversight agency: 11/6/93

Monitoring Wells installed? YES, 1 well & 2 piezometers

Proper screened interval? Yes

Highest GW depth below ground surface: 9.27' Lowest depth: 10.87'

Flow direction: east to NE

Most sensitive current use: NA

Are drinking water wells affected? NO Aquifer name: NA

Report(s) on file? YES Where are report filed? Alameda County
80 Swan Wy., Rm 200
Oakland CA 94621

GeoPlexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering • Geology Consultants • Environmental Management Consultants

ALCO
HAZMAT
94 MAR -2 AM 11:53

November 16, 1993

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

Subject: February, 1994 Quarterly Ground Water Sampling Report

Dear Mr. Henrikson:

As requested and authorized, the attached Ground Water Sampling Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the sampling protocol, recorded ground water elevations, and the analytical test data for the ground water samples collected on February 16, 1994.

Ground water measurements recorded during the sampling efforts indicate that the direction of ground water flow is in an easterly direction which places Monitoring Well P-3 in the down-gradient direction from the former/current fuel dispensing island area (location of previous release).

The analytical testing did not detect concentrations of Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil & Grease, or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) in the water samples from Monitoring Well P-3. This is the fourth consecutive quarter of non-detectable concentrations.

Based on the results of the quarterly ground water data, it is our opinion that the source of the release was abated during the excavation activities and construction of the new dispensing island and that additional site characterization and/or continued monitoring does not appear warranted.

It is also our opinion that the project site does not represent a risk to the local ground water resources. It is our recommendation that the site be considered/recommended for closure without further action.

It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to the undersigned. Copies of this report should be forwarded to:

Mr. Thomas Peacock
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

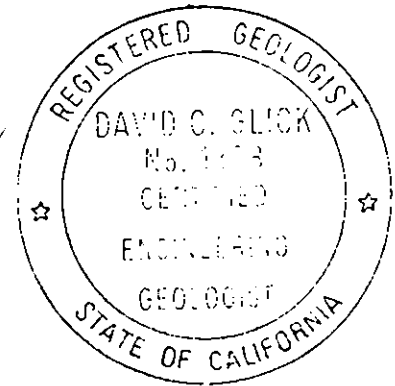
Mr. Richard Hiatt
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 500
Oakland, CA 94612

Respectfully submitted,

Geo Plexus, Incorporated



David C. Glick, CEG 1338
Director, Geological and
Environmental Services



GROUND WATER SAMPLING REPORT

for

RIGHT AWAY REDY MIX

401 KENNEDY STREET

OAKLAND, CALIFORNIA

February 22, 1994

Project C92032

GROUND WATER SAMPLING REPORT
for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California as indicated on Figure 1 and is currently occupied by Right Away Redy Mix as indicated on Figure 2.

Three open-standpipe piezometers were installed around the existing underground diesel fuel storage tank and dispensing island (see Figure 3) in December, 1991 by Geo Plexus, Incorporated to obtain soil samples for analytical testing and to establish site-specific ground water flow information. The focus of the investigation was to acquire ground water samples from the "down-gradient" direction of the former/existing dispenser pump area. The top of the piezometer casings were surveyed to establish relative elevations and it was determined that piezometer P-3 was located down gradient of the dispensing pump area (location of previous release). Piezometer P-3 was subsequently developed as a ground water monitoring well (identified as Monitoring Well P-3) and was sampled.

Low concentrations of Total Petroleum Hydrocarbons as diesel (290 ppb) were detected in the ground water in January, 1992. These concentrations reduced to 78 ppb in August, 1992. Low concentrations (210-220 ppb) of non-discreet petroleum hydrocarbons were detected in the ground water in November, 1992 and February, 1993. The quality control report accompanying the November and February data indicated that the constituents detected were non-discreet petroleum hydrocarbons which did not correlate with the chromatographic pattern of the diesel standard used by the analytical testing laboratory. The analytical testing schedule was expanded during the last two quarters to further characterize the non-discreet petroleum hydrocarbons previously detected and reported as Total Petroleum Hydrocarbons as diesel.

This report presents the recorded ground water elevations, the sampling protocol, and results of the analytical testing performed on the ground water samples collected from Monitoring Well P-3 on February 16, 1994.

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

MONITORING WELL SAMPLING

Free product measurements were obtained for the monitoring well at the time of sample acquisition utilizing a teflon bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product, visible sheens, or odors were not observed in the initial bailer water samples or following purging of the well.

Prior to sampling Monitoring Well P-3, five well volumes were purged from each well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized and the water appeared free of suspended solids.

Water samples for analytical testing were obtained through the use of a teflon bailer. The water samples were collected in sterilized glass vials with Teflon lined screw caps. The water samples collected for Volatile Organics were collected in 40 mil. vials acidified with HCL by the analytical laboratory. The water samples collected for Total Petroleum Hydrocarbons as diesel and Oil & Grease were collected in sterilized 1-liter amber jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives (HCl) added to the sample. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

The water obtained from the monitoring well during the purging and sampling activities was contained on-site in 55-gallon drums pending receipt of the laboratory test results.

GRADIENT SURVEY

The elevation of the top of the casing of the monitoring well and other piezometers at the site were established during previous investigations with vertical control of 0.01 foot. Prior to purging the monitoring well, the depth to ground water in each well was measured to the nearest 0.01 foot with an electronic water level meter.

Ground water elevations recorded suggest that the ground water flow across the site is in an easterly direction (see Figure 3) at a gradient of 0.0050 ft/ft with Monitoring Well P-3 in the down-gradient direction from the former/existing dispensing island (focus of investigation).

ANALYTICAL TESTING

The ground water samples were submitted to and tested by McCampbell Analytical, a State of California Certified Testing Laboratory. The samples were tested for Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015, Volatile Aromatics by EPA Method 8020/5030, and Oil & Grease by Method 5520. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

SUMMARY OF FINDINGS

Ground water elevations recorded during the sampling suggest that ground water is at a depth of 10-11 feet below the ground surface and flows across the site in an easterly direction at a gradient of 0.0050 ft/ft. The flow direction places Monitoring Well P-3 in a down-gradient direction from the dispenser island.

The analytical testing did not detect reportable quantities of Total Petroleum Hydrocarbons as diesel, Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene), or Oil & Grease. Tables 1 and 2 summarize the current analytical test results along with the previous analytical testing results.

The diesel constituents detected in the ground water in January and August, 1992 could be attributed to the diesel contaminated fuel which was encountered, excavated, and removed from the former fuel dispenser island area. However, the constituents reported as Total Petroleum Hydrocarbons as diesel in November, 1992 and February, 1993 (which were reported to be discrete hydrocarbon peaks not indicative of diesel fuel) could be attributed to residual levels of degraded diesel fuel resulting from the site remedial work (excavation and removal of the source).

The expanded testing, which was implemented to further characterize the non-discrete hydrocarbon products, has not identified the presence of these discrete peaks, Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil & Grease, or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) in the ground water.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-Benzene</u>	<u>Total Xylenes</u>
1-8-92	290	N.D.	N.D.	N.D.	N.D.
8-17-92	74	N.D.	N.D.	N.D.	N.D.
11-2-92	210*	N.D.	N.D.	N.D.	N.D.
2-5-93	220*	N.D.	N.D.	N.D.	55
5-25-93	ND	N.D.	N.D.	N.D.	N.D.
8-20-93	ND	N.D.	N.D.	N.D.	N.D.
11-10-93	ND	N.D.	N.D.	N.D.	N.D.
2-16-94	ND	N.D.	N.D.	N.D.	N.D.

Note: Total Petroleum Hydrocarbons as diesel.

* Compounds reported as Total Petroleum Hydrocarbons as diesel reported to be discrete hydrocarbon peaks which did not correlate with diesel standard used by the analytical testing laboratory and not indicative of diesel fuel.

N.D. indicates compounds not detected.

TABLE 2

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Oil & Grease</u>
5-25-93	ND	ND
8-20-93	--	ND
11-10-93	--	ND
2-16-94	ND	ND

Note: Total Petroleum Hydrocarbons reported as gasoline
 N.D. indicates non-detectable concentrations

This is the fourth consecutive sample event with non-detectable concentrations.

Based on our review of the project history, we have concluded that the remedial work performed to date including the soil excavation and ground water monitoring has resulted in: (1) removal of any potential source of the contamination; (2) removal of any impacted soil adjacent to and beneath the dispenser pump which could contribute to ground water contamination; and (3) verified through monitoring that ground water contamination does not exist at the project site.

It is also our opinion that the project site does not represent a risk to the local ground water resources. It is our recommendation that the site be considered/recommended for closure without further action.

RECOMMENDATION

It is recommended that the site be considered/recommended for closure without further action. It is also recommended that the existing monitoring wells at the site be destroyed in accordance with State of California and Alameda County well destruction guidelines by over-drilling and grouting techniques.

LIMITATIONS

We have only observed a small portion of the pertinent subsurface and ground water conditions present at the site. The conclusions and recommendations made herein are based on the assumption that subsurface and ground water conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

Geo Plexus, Incorporated

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815



RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	NA	JCM
VICINITY MAP		
P91024	Figure 1	

GeoPlexus, Inc.

CON AGRA PROPERTY

OPEN STORAGE YARD

WASH AREA

CONCRETE BATCH PLANT

AGGREGATE STORAGE

CON AGRA VEHICLE STORAGE

DRIVEWAY

P-2
P-1
P-3

EXISTING DIESEL TANK AND PUMP

OFFICE

WAREHOUSE

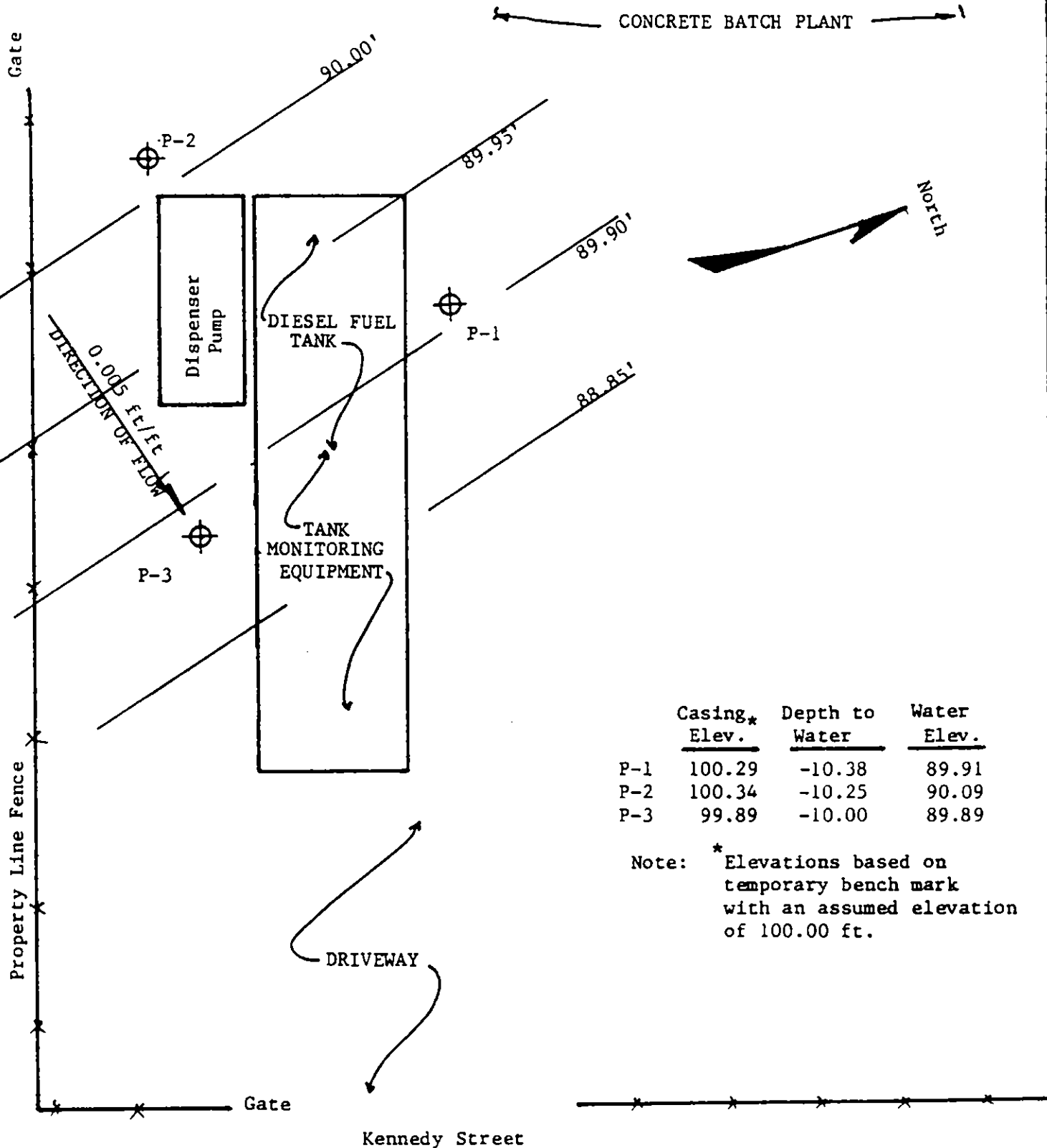
EQUIPMENT STORAGE

DRIVEWAY

SIDEWALK

KENNEDY STREET

RIGHT AWAY REDY MIX		
DATE 8/31/93	SCALE n/a	DRAWN BY dcg
SITE PLAN		
		Figure 2



	Casing* Elev.	Depth to Water	Water Elev.
P-1	100.29	-10.38	89.91
P-2	100.34	-10.25	90.09
P-3	99.89	-10.00	89.89

Note: * Elevations based on temporary bench mark with an assumed elevation of 100.00 ft.

P-1 indicates approximate location of piezometers.

RIGHT AWAY REDY MIX		
DATE 2/16/94	SCALE 1"=10'	DRAWN BY DCG/JCM
GRADIENT MAP		
		Figure 3

Quarterly Ground Water Sampling Report
Right Away Redy Mix
Oakland, California

February 22, 1994

APPENDIX A
CHAIN-OF-CUSTODY FORM
AND
ANALYTICAL TEST DATA

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

2037 AGP 70

PROJECT NUMBER		PROJECT NAME				Number of Containers	Type of Containers	Type of Analysis				Condition of Samples	Initial
C92032		Right Away						TPH ₉	BTEX	TPH ₁₀	550, 985, 017, 9000		
Send Report Attention of:		Report Due		Verbal Due		Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	
DAVID GLICK		1 1		1 1									
Sample Number	Date	Time	Comp	Grab	Station Location								
MW P3 - WS1 A,B	2/16/94	1200		1	MON well P3	2EA	Acidified 40 ml	✓	✓			34329	
MW P3 - WS2 A,B	2/16/94	1200		1	MON well P3	2EA	1 LTR AMBER		✓	✓		34330	
						VOAS	U&P	METALS	OTHER				
						ICE/✓	GOOD CONDITION ✓	HEAD SPACE ABSENT ✓	PRESERVATIVE ✓	APPROPRIATE CONTAINERS ✓			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks: STANDARD TURN AROUND									
J. Hamilton	2/17/94 1240	J. Hamilton	2/17/94 1240										
J. Hamilton	2/17/94	Deirdre Ricca	2-17-94 1400										
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	ICE/✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ PRESERVATIVE ✓ U&P METALS ✓ OTHER ✓ APPROPRIATE CONTAINERS ✓									

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID: # C92032; Right Away	Date Sampled: 02/16/94
		Date Received: 02/17/94
	Client Contact: David Glick	Date Extracted: 02/17/94
	Client P.O:	Date Analyzed: 02/17/94

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
34329	MW P3-WS1	W	ND	ND	ND	ND	ND	115
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L
 * 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) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID: # C92032; Right Away	Date Sampled: 02/16/94
		Date Received: 02/17/94
	Client Contact: David Glick	Date Extracted: 02/17/94
	Client P.O:	Date Analyzed: 02/17/94

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) [†]	% Recovery Surrogate
34330	MW P3-WS2	W	ND	96
Detection Limit unless otherwise stated: ND means Not Detected	W	50 ug/L		
	S	10 mg/kg		

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L
[†] cluttered chromatogram: surrogate and sample peaks co-elute or surrogate peak is on elevated baseline
[‡] The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?: light (CL) or heavy (CH) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID: # C92032: Right Away	Date Sampled: 02/16/94
		Date Received: 02/17/94
	Client Contact: David Glick	Date Extracted: 02/18/94
	Client P.O:	Date Analyzed: 02/18/94

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 B&E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease
34330	MW P3-WS2	W	ND
Detection Limit unless otherwise stated, ND means Not Detected	W	5 mg/L	
	S	50 mg/kg	

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

DHS Certification No. 1644

 Edward Hamilton, Lab Director

John W. Sutfin



Environmental Services

43289 Osgood Road
Fremont, CA 94539
(510) 623-0480 FAX (510) 623-0482
Cont Lic. #572427

Village Square Offices, Suite 34
53 Pennington-Hopewell Road
Pennington, N.J. 08534
(609) 466-4118

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

June 29, 1994
STID 2974

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

REMEDIAL ACTION COMPLETION CERTIFICATION

Geoff Henrikson
Right Away Redi Mix, Inc.
401 Kennedy St.,
Oakland CA 94606

RE: Right Away Redi Mix, Inc., 401 Kennedy St., Oakland, CA 94606

Dear Mr. Geoff Henrikson:

This letter confirms the completion of site investigation and remedial action for the 12,000 gallon underground storage tank at the above described location.

Based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations.

Please contact Thomas Peacock at (510) 271-4330 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in cursive script that reads "Rafat A. Shahid".

Rafat A. Shahid
Assistant Agency Director

c: Edgar B. Howell, Chief, Hazardous Materials Division - files
Kevin Graves, RWQCB
Mike Harper, SWRCB

WATER RESOURCES CONTROL BOARD
DIVISION OF WATER QUALITY - UST CLEANUP PROGRAM
SITE SPECIFIC QUARTERLY REPORT
04/01/92 THROUGH 06/30/92

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
StID : 523
SITE NAME: American Brass & Iron Foundry DATE REPORTED : 10/31/91
ADDRESS : 7825 -0 San Leandro St. DATE CONFIRMED: 10/31/91
CITY/ZIP : Oakland 94621 MULTIPLE RDS : N

SITE STATUS

CASE TYPE: G	CONTRACT STATUS: 2	EMERGENCY RESP: -0-
RP SEARCH: -		DATE COMPLETED: -0-
PRELIMINARY ASMNT: -	DATE UNDERWAY: -0-	DATE COMPLETED: -0-
REM INVESTIGATION: -	DATE UNDERWAY: -0-	DATE COMPLETED: -0-
REMEDIAL ACTION: -	DATE UNDERWAY: -0-	DATE COMPLETED: -0-
POST REMED ACT MON:-	DATE UNDERWAY: -0-	DATE COMPLETED: -0-

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 05/28/92
LUFT FIELD MANUAL CONSID: -0-
CASE CLOSED: - DATE CASE CLOSED: -0-
DATE EXCAVATION STARTED : 08/26/91 REMEDIAL ACTIONS TAKEN: ET-

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: -0-
COMPANY NAME: -0-
ADDRESS: -0-
CITY/STATE: -0-

Barney,

*Please complete Rp information and
return to me so I can input.*

Thank you,

Na'i

LOP - RECORD CHANGE REQUEST FORM

printed: 07/08/94

Mark Out What Needs Changing and Hand to LOP Data Entry (Name/Address changes go to Annual Programs Data Entry)

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12034
StID : 2974
SITE NAME: Right Away Redi Mix, Inc. DATE REPORTED : 11/01/91
ADDRESS : 401 Kennedy St DATE CONFIRMED: 11/01/91
CITY/ZIP : Oakland 94606 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: G CONTRACT STATUS: 9 PRIOR CODE:1C3 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 07/20/92
PRELIMINARY ASMNT: C DATE UNDERWAY: 01/24/92 DATE COMPLETED: 06/29/94
REM INVESTIGATION: DATE UNDERWAY: DATE COMPLETED:
REMEDIAL ACTION: DATE UNDERWAY: DATE COMPLETED:
POST REMED ACT MON:C DATE UNDERWAY: 01/24/92 DATE COMPLETED: 06/29/94
ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 07/20/92
LUFT FIELD MANUAL CONSID: 3HSCAWG
CASE CLOSED: Y DATE CASE CLOSED: 06/29/94
DATE EXCAVATION STARTED : 11/01/91 REMEDIAL ACTIONS TAKEN: ED

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Mr. Geoff Henrikson
COMPANY NAME: Right Away Redy Mix
ADDRESS: 401 Kennedy St.
CITY/STATE: Oakland Ca 94606

INSPECTOR VERIFICATION:

NAME SIGNATURE DATE

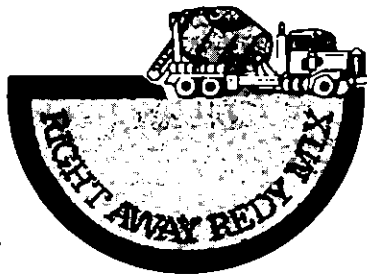
DATA ENTRY INPUT:

Name/Address Changes Only Case Progress Changes

ANPPGMS LOP DATE LOP DATE

Ms. Eva Chu
June 13, 1994
Page 3

ATTACHMENTS
LABORATORY SOIL SAMPLE RESULTS



725 Julie Ann Way, Oakland, CA 94621 510 632-0602 FAX 510 638-9447

ALCO
FLA 602
94 APR 14 P11 1:58

Thomas Peacock
Dept. of Environmental Health
Hazardous Materials Program
80 Swan Way, Rm. 200

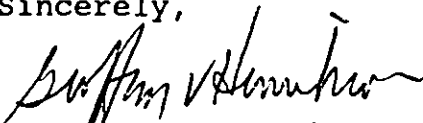
April 13, 1994

Dear Mr. Peacock

Enclosce please find the report that you asked for. Also I inclosed a copy of the original that I believe was sent in at the time the spill was originally discovered. Please let me know if there is anything else that you need to resolve this matter.

Thank you for your cooperation.

Sincerely,


Geoffrey V. Henrikson

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE 24 Jul 83 144		CASE #		SIGNED _____ DATE _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT [Handwritten Name]		PHONE (702) 500-1900		SIGNATURE [Handwritten Signature]	
	REPRESENTING <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OTHER		COMPANY OR AGENCY NAME [Handwritten Name]			
	ADDRESS [Handwritten Address]					
RESPONSIBLE PARTY	NAME [Handwritten Name]		CONTACT PERSON [Handwritten Name]		PHONE () - -	
	ADDRESS [Handwritten Address]					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) [Handwritten Name]		OPERATOR [Handwritten Name]		PHONE () - -	
	ADDRESS [Handwritten Address]					
	CROSS STREET [Handwritten Address]					
IMPLEMENTING AGENCIES	LOCAL AGENCY [Handwritten Agency Name]		CONTACT PERSON [Handwritten Name]		PHONE () - -	
	REGIONAL BOARD [Handwritten Agency Name]		CONTACT PERSON [Handwritten Name]		PHONE () - -	
SUBSTANCES INVOLVED	(1) [Handwritten Name] QUANTITY LOST (GALLONS) _____ <input type="checkbox"/> UNKNOWN					
	(2) [Handwritten Name] QUANTITY LOST (GALLONS) _____ <input type="checkbox"/> UNKNOWN					
DISCOVERY/BATEMENT	DATE DISCOVERED [Handwritten Date]		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER [Handwritten]			
	DATE DISCHARGE BEGAN [Handwritten Date] <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER [Handwritten]			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE [Handwritten Date]					
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input checked="" type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input checked="" type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> CAP SITE (CD) <input checked="" type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS)					
COMMENTS	[Handwritten Comments]					
	[Handwritten Comments]					

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES <input type="checkbox"/> NO <input type="checkbox"/>		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE 12 14 04 5d 94 1v		CASE # 94 APR 14 PM 1:59		SIGNED _____ DATE _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Geoffry Henrikson		PHONE (510) 930-1900	SIGNATURE 		
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input checked="" type="checkbox"/> OTHER Agent		COMPANY OR AGENCY NAME Right Away Ready Mix			
ADDRESS 401 Kennedy Street Oakland CA 94606						
RESPONSIBLE PARTY	NAME Right Away Ready Mix <input type="checkbox"/> UNKNOWN		CONTACT PERSON G. Henrikson	PHONE (510) 769-6242		
	ADDRESS 401 Kennedy Street Oakland CA 94606					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Right Away Ready Mix		OPERATOR G. Henrikson	PHONE (510) 769-6242		
	ADDRESS 401 Kennedy Street Oakland CA 94606					
	CROSS STREET 17th Street					
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda County Health Care Services Agency		CONTACT PERSON Anthony Chan		PHONE (415) 271-4320	
	REGIONAL BOARD San Francisco Bay Regional Water Quality Control Board		CONTACT PERSON Bryan Whyte		PHONE (510) 271-4320	
SUBSTANCES INVOLVED	(1) Diesel Fuel			QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2)			<input type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 12 10 5d 94 1v	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER Retrospect				
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input checked="" type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER Install dispenser				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input checked="" type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input checked="" type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)					
COMMENTS	Believed to be historical spillage resulting from filter changes, etc.					

STUD 2974 2 ⁴⁰ 14-17-93

Last letter 7-26-93

check w/ Barney

12-28-93 3:35

Should consider for case closure
after 1 more QTR.

Table 4. SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS, SHELL SERVICE STATION, 4695 THORNTON AVENUE, FREMONT, CALIFORNIA (concluded)

Well Number	Sample Date	Results Reported in Micrograms Per Liter ($\mu\text{g/L}$)					High Boiling Point Hydrocarbons (Diesel)
		Low to Medium Boiling Point Hydrocarbons (gasoline)	Benzene	Toluene	Ethylbenzene	Xylenes	
S-5	02/22/89	60	12	3	i	6	--
	03/21/89	50	1.8	9	1	3	<100
	03/21/89d	50	1.9	9	i	3	<100
	04/24/89	<30	<0.3	<0.3	<0.3	<0.3	--
	06/06/89	<30	<0.3	<0.3	<0.3	<0.3	--
	06/06/89d	<30	<0.3	<0.3	<0.3	<0.3	--
	08/25/89	34	<0.3	<0.3	<0.3	<0.3	--
	08/25/89c	54	<0.3	<0.3	<0.3	0.59	350
	11/14/89	<30	0.37	0.32	<0.3	1.0	<50
	02/22/90	<30	0.51	<0.3	<0.3	0.31	<50
	02/22/90c	<30	0.55	<0.3	<0.3	0.30	62
	05/18/90	<30	0.34	0.50	<0.3	0.33	190
S-6	03/16/90	<30	<0.3	<0.3	<0.3	<0.3	<50
	04/13/90	<30	<0.3	<0.3	<0.3	<0.3	--
	04/13/90d	<30	<0.3	<0.3	<0.3	<0.3	--
	05/18/90	<30	<0.3	<0.3	<0.3	<0.3	--
	05/18/90d	<30	<0.3	<0.3	<0.3	<0.3	--
S-7	06/06/89	<30	<0.3	<0.3	<0.3	<0.3	--
	07/31/89	<30	<0.3	<0.3	<0.3	<0.3	<50
	07/31/89d	<30	<0.3	<0.3	<0.3	<0.3	<50
	08/28/89	<30	<0.3	0.31	<0.3	<0.3	<50
	08/28/89d	<30	<0.3	<0.3	<0.3	<0.3	<50
	11/13/89	<30	<0.3	0.39	<0.3	0.37	<50
	02/22/90	<30	0.94	0.59	0.32	0.96	--
	05/18/90	<30	<0.3	<0.3	<0.3	0.44	--
S-8	07/26/89	<30	<0.3	<0.3	<0.3	<0.3	<50
	07/26/89d	<30	<0.3	0.40	<0.3	<0.3	--
	08/25/89	<30	0.59	0.31	<0.3	0.34	1,500
	09/13/89	<30	0.59	0.38	<0.3	<0.3	1,800
	11/13/89	<30	<0.3	<0.3	<0.3	<0.3	1,500
	11/13/89d	<30	<0.3	<0.3	<0.3	0.42	2,200
	12/13/89	<30	<0.3	<0.3	<0.3	<0.3	<50
	12/13/89d	<30	<0.3	<0.3	<0.3	<0.3	<50
	02/22/90	<30	0.35	<0.3	<0.3	<0.3	470
	05/18/90	52	0.60	0.64	<0.3	<0.3	730

Detection Limits:

2/22/89 to 3/21/89	50	0.5	1	1	3	100
since 4/24/89	30	0.3	0.3	0.3	0.3	50

Other detection limits are in parentheses or preceded by a "<" sign; * = Detection limit not given;

Note:

i = High Boiling Hydrocarbons calculated as diesel appear to be the less volatile constituents of gasoline.
 d = Included with xylenes. -- = Not analyzed. d = indicates duplicate sample analytical results.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR
DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

December 28, 1993
STID 2974

Right Away Redy Mix, Inc.
ATTN: Geoffrey Henrikson
401 Kennedy St.
Oakland, CA 94606

RE: 401 Kennedy St., Oakland, CA 94606

Dear Geoffrey Henrikson,

This office has received and reviewed a Quarterly Ground Water Sampling Report by Geo Plexus, Inc. dated November 16, 1993 concerning the above site. The following comment is made concerning this report.

You mention that the site should be considered for closure. Page 4 of the report explains that the TPHd from November, 1992 and February, 1993 is attributed to residual levels of degraded diesel fuel. In other words: diesel fuel. A minimum of 4 consecutive "clean" quarters is normally required, so you need to submit 1 more quarter of monitoring and this office will close the case.

This office looks forward to the next report.

The site map is difficult to read as it shows only a portion of the site and no adjoining properties. Please expand the site drawing appropriately.

Thank you for your cooperation. If you have any questions or comments, please contact this office at (510) 271-4530.

Sincerely,

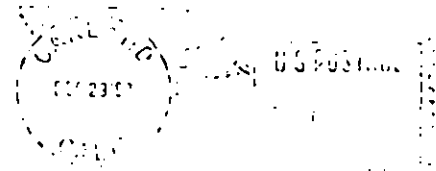
A handwritten signature in cursive script, appearing to read "Thomas Peacock".

Thomas Peacock, Supervising HMS
Hazardous Material Division

cc: David Glick, GeoPlexus, 2922 Scott Blvd., Santa Clara, CA
95054
Edgar Howell, Chief - Files

ALAMEDA COUNTY
HEALTH CARE SERVICES AGENCY

Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621



David Glick
~~Geoplexus~~
2922 Scott Blvd.
Santa Clara CA 95054

4P/EO/10 2P81 EE4145055 22PCL78
GLIC922 250541433 1993 01/03/94
FORWARDING TIME EXPIRED
GLICK/DAVID
1900 WYATT DR #1
SANTA CLARA CA 95054-1529
RETURN TO SENDER



94 JAN -5 PM 3:24
ALCO
HAZMAT

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR
DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
JST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

December 28, 1993
STID 2974

Right Away Redy Mix, Inc.
ATTN: Geoffrey Henrikson
401 Kennedy St.
Oakland, CA 94606

RE: 401 Kennedy St., Oakland, CA 94606

Dear Geoffrey Henrikson,

This office has received and reviewed a Quarterly Ground Water Sampling Report by Geo Plexus, Inc. dated November 16, 1993 concerning the above site. The following comment is made concerning this report.

You mention that the site should be considered for closure. Page 4 of the report explains that the TPHd from November, 1992 and February, 1993 is attributed to residual levels of degraded diesel fuel. In other words: diesel fuel. A minimum of 4 consecutive "clean" quarters is normally required, so you need to submit 1 more quarter of monitoring and this office will close the case.

This office looks forward to the next report.

The site map is difficult to read as it shows only a portion of the site and no adjoining properties. Please expand the site drawing appropriately.

Thank you for your cooperation. If you have any questions or comments, please contact this office at (510) 271-4530.

Sincerely,

A handwritten signature in cursive script, appearing to read "Thomas Peacock".

Thomas Peacock, Supervising HMS
Hazardous Material Division

cc: David Glick, GeoPlexus, 2922 Scott Blvd., Santa Clara, CA
95054
Edgar Howell, Chief - Files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEANS, Agency Director



FOR AID: HAZARDOUS WASTE...
DEPARTMENT OF ENVIRONMENTAL AFFAIRS
State Water Resources Control Board
Regional Board of Alameda County
U.S. Environmental Protection Agency
San Francisco, CA 94133

November 17, 1993
STID 2974

Right Away Redy Mix, Inc.
ATTN: Geoffrey Henrikson
401 Kennedy St.
Oakland, CA 94606

RE: 401 Kennedy St., Oakland, CA 94606

Dear Geoffrey Henrikson,

This office has received and reviewed the Quarterly Groundwater Sampling Report by Geo Plexus, Inc. dated August 31, 1993 concerning the above site. Within the report is also a request for case closure. The consultant cites several reasons why 4 clean quarters should be accepted. We accept two quarters of monitoring. The two quarters that are *'ed show 210 and 220 of some type of unknown contamination. You have not defined what this contamination was other than to say that it was not diesel. You also don't say whether or not it contained some unknown level of diesel or some other unknown material. Without these questions answered we must have 2 more quarters of clean samples in order to close the case.

This office looks forward to the next report. It is not necessary to submit reports to the Regional Board.

Thank you for your cooperation. If you have any questions or comments, please contact this office at (510) 271-4530.

Sincerely,

Handwritten signature of Thomas Peacock in cursive script.

Thomas Peacock, Supervising HMS
Hazardous Material Division

cc: David Glick, GeoPlexus, 1900 Wyatt Dr., Suite 1, Santa Clara, CA 95054
Edgar Howell, Chief - Files

extra set!

There exists a vector $\bar{x}^0 \in \mathbb{R}^m$ such that

$$\left(\frac{\partial f}{\partial x_j}\right)(\bar{x}^0) + \sum_{i=1}^m \lambda_i^0 \left(\frac{\partial g_i}{\partial x_j}\right)(\bar{x}^0) = 0 \quad j=1, \dots, n$$

$$\lambda_i^0 (g_i(\bar{x}^0) - b_i) = 0 \quad i=1, \dots, m^1$$

$$\lambda_i^0 \leq 0 \quad i=1, \dots, m^1$$

$$g_i(\bar{x}^0) - b_i = 0 \quad i=m^1+1, \dots, m$$

$$g_i(\bar{x}^0) \leq b_i \quad i=1, \dots, m^1$$

Proof.

Consider the equality constraints $g_i(\bar{x}) = b_i \quad (i=m^1+1, \dots, m)$

Clearly $g_i(\bar{x}) = b_i$ if and only if $g_i(\bar{x}) \leq b_i$ and

$-g_i(\bar{x}) \leq -b_i$.

Hence an equivalent problem is given by

$$\begin{aligned} & \max f(\bar{x}) \\ & \text{subject to } g_i(\bar{x}) \leq b_i \quad i=1, \dots, m^1 \end{aligned}$$

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

July 26, 1993
STID 2974

Right Away Redy Mix, Inc.
ATTN: Geoffrey Henrikson
401 Kennedy St.
Oakland, CA 94606

RE: 401 Kennedy St., Oakland, CA 94606

Dear Geoffrey Henrikson,

This office has received and reviewed the Quarterly Report by Geo Plexus, Inc. dated June 10, 1993 concerning the above site. Thank you for the explanation concerning the source of the leak. It helps to clarify the tank situation, which was not clear before. The drawing does not note the leak's source.

You mention that this is the fourth quarterly event. You have now only 1 quarter of ND for TPHg and a minimum of 4 consecutive "clean" quarters is normally required.

This office looks forward to the next report. It is not necessary to submit reports to the Regional Board.

The site map is difficult to read as it shows only a portion of the site and no adjoining properties.

Thank you for your cooperation. If you have any questions or comments, please contact this office at (510) 271-4530.

Sincerely,

A handwritten signature in dark ink, appearing to read "Thomas Peacock". The signature is fluid and cursive, written over a horizontal line.

Thomas Peacock, Supervising HMS
Hazardous Material Division

cc: David Glick, GeoPlexus, 2922 Scott Blvd., Santa Clara, CA
95054
Edgar Howell, Chief - Files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

March 30, 1993
STID 2974

Right Away Redy Mix, Inc.
ATTN: Geoffrey Henrikson
401 Kennedy St.
Oakland, CA 94606

RE: 401 Kennedy St., Oakland, CA 94606

Dear Geoffrey Henrikson,

This office has received and reviewed the Quarterly Report by Geo Plexus, Inc. dated March 15, 1993 concerning the above site. It appears that, because of the gradient discovered, that at least 1 additional well is needed to adequately define lateral contamination. There is not now a downgradient well from the former tank pit.

There is also a comment from the lab which states that some hydrocarbon peaks were not diesel in nature but were reported as diesel. This office concurs with the recommendation that analysis should be done which can properly report diesel contamination and discover what other hydrocarbon is contributing to the increased level of contamination. This office looks forward to the next report.

The site map is difficult to read as it shows only a portion of the site and no adjoining properties. Also, it is assumed that P-3, marked as a piezometer, is the same P-3 that is the monitoring well.

Thank you for your cooperation. If you have any questions or comments, please contact this office at (510) 271-4530.

Sincerely,

A handwritten signature in cursive script, appearing to read "Thomas Peacock".

Thomas Peacock, Supervising HMS
Hazardous Material Division

cc: Richard Hiatt, RWQCB
David Glick, GeoPlexus, 2922 Scott Blvd., Santa Clara, CA
95054
Edgar Howell, Chief - Files *EHP*

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

December 29, 1992
STID 2974

Right Away Redy Mix, Inc.
ATTN: Geoffrey Henrikson
401 Kennedy St.
Oakland, CA 94606

RE: 401 Kennedy St., Oakland, CA 94606

Dear Geoffrey Henrikson,

This office has received and reviewed the Quarterly Report by Geo Plexus, Inc. dated November 20, 1992 concerning the above site. It appears that, because of the gradient discovered, that 1 additional well may be warranted to adequately define lateral contamination.

There is also a comment from the lab which states that some hydrocarbon peaks were not diesel in nature but were reported as diesel. Analysis should be done which can properly report diesel contamination and should discover what other contaminate or constituent is contributing to the increased level of contamination. This office looks forward to the next report. There should be some effort toward developing recommendations.

Thank you for your cooperation. If you have any questions or comments, please contact this office at (510) 271-4530.

Sincerely,

A handwritten signature in cursive script, appearing to read "Thomas Peacock".

Thomas Peacock, Supervising HMS
Hazardous Material Division

cc: Richard Hiatt, RWQCB
David Glick, GeoPlexus, 2922 Scott Blvd., Santa Clara, CA
95054
Edgar Howell, Chief - Files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



EPA/FEA

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

October 19, 1992
STID 2974

Right Away Redy Mix, Inc.
ATTN: Geoffrey Henrikson
401 Kennedy St.
Oakland, CA 94606

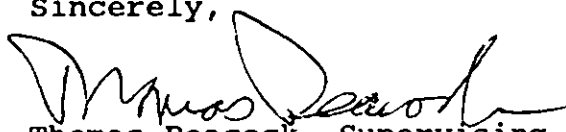
RE: 401 Kennedy St., Oakland, CA 94606

Dear Geoffrey Henrikson,

This office has received and reviewed the Quarterly Report by Geo Plexus, Inc. dated August 19, 1992 concerning the above site. The recommendations on page 3 are accepted. Attached please find a list of information that is required by the Regional Water Quality Control Board for site closure.

Thank you for your cooperation. If you have any questions or comments, please contact this office at (510) 271-4530.

Sincerely,


Thomas Peacock, Supervising HMS
Hazardous Material Division

cc: Richard Hiett, RWQCB
David Glick, GeoPlexus, 2922 Scott Blvd., Santa Clara, CA
95054
Edgar Howell, Chief - Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

July 30, 1992
STID #2974

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy St.
Oakland CA 94606

Re: Comment on Preliminary Site Characterization Report,
January 24, 1992, from GeoPlexus, Inc. for Right Away
Redy Mix, 401 Kennedy St., Oakland, CA 94606

Dear Mr. Henrikson:

This letter serves to summarize our conversation today regarding our office's concerns at the above site. As you recall, three piezometers were installed at this site. The groundwater gradient was determined to be westerly in the direction of P-3 relative to the dispenser pump area where the initial soil contamination was found. P-3 was subsequently developed and the groundwater analyzed for diesel and BTEX (benzene, toluene, ethylbenzene and xylenes). The water results showed non-detectable BTEX and 0.290 parts per million diesel. Analysis of soil samples taken from borings P-1 and P-2, the other two piezometers, showed non-detectable diesel and BTEX. Because of these results, our office requests that you continue to monitor all three piezometers for groundwater elevation and analyze only P-3 for diesel and BTEX.

You may contact me at (510) 271-4320 should you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: M. Thomson, Alameda County District Attorney Office
R. Hiett, RWQCB
D. Glick, GeoPlexus, Inc., 753 North 9th St., Suite 131,
San Jose, CA 95112-3150

WP-401Ken

files

P 367 604 300

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(BC) #2974 (See Reverse)

U.S. G.P.O. 1989-234-565

PS Form 3800, June 1985

Sent to		Mr. G. Henrikson
Street address		401 Kennedy St.
P.O. State and ZIP Code		Oakland, CA 94606
Postage		\$
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt showing to whom and Date Delivered		
Return Receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees		\$
Postmark or Date		

ST10 2974

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
RAFAT A. SHAHID, Assistant Agency Director

Certified Mail # P 367 604 300

07/20/92
STID# 2974

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Notice of Requirement to Reimburse

Mr. G. Henrikson
Right Away Redy Mix
401 Kennedy St.
Oakland Ca 94606

Responsible Party
Property Owner

Right Away RedY Mix, Inc.
401 Kennedy St.
Oakland , CA 94606

SITE

Date First Reported 11/01/91
Substance: Diesel
Petroleum: (X)Yes

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been indentified as the party or parties responsible for investigation and cleanup of the above site. **YOU ARE HEREBY NOTIFIED** that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

Please contact Barney CHAN, Hazardous Materials Specialist at this office if you have any questions concerning this matter.


Edgar B. Howell, III, Chief
Contract Project Director

cc: Sandra Malos, SWRCB

SWRCB Use:

Add: X Reason: New Case

P/O Attn: G. Henrikson
R/P Right Away Redy Mix
401 Kennedy St.
Oak 94606

DATE: 7/17/92
TO : Local Oversight Program
FROM: Be
SUBJ: Transfer of Eligible Oversight Case

Site name: Right Away Redy Mix, Inc.
Address: 401 Kennedy St city Oak zip 94606
Closure plan attached? Y N
DepRef remaining \$ _____
DepRef Project # UG12150 STID #(if any) 2974
Number of Tanks: 0 removed? Y N Date of removal N/A
Leak Report filed? Y N Date of Discovery 11/1/91
Samples received? Y N Contamination: diesel
Petroleum N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents
Monitoring wells on site 1 Monitoring schedule? Y N
LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:

Preliminary Assessment _____
Remedial Action _____
Post Remedial Action Monitoring _____
Enforcement Action _____

During a repiping of and dispenser replacement of diesel tank found up to 1645 ppm TPHd under dispenser over excavated still found 380 ppm TPHd @ 9.5' Geo Plexus (Contractor) installed 3 piezometers, took elevation readings & converted the apparent downgradient piezometer into draw-1, found NOBTEX & 290 ppm TPHd - Should continue to monitor MW-1 & take GW levels w. piezometers to confirm gradient

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
35	7*	6 11 16	as above, with little lamina sand and gravel, stiff, moist	H Nu = 2 ppm	[Well Construction Diagram]
40	8*	4 6 7	brown, medium plastic ty, stiff, trace fine sand, moist to wet	H Nu = 1.5 ppm	[Well Construction Diagram]
45 50 55 60 65 70 75 80			Total Depth = 42 feet * = Lab Sample		

92 MAY 26 11 3: 29

May 20, 1992
Project P91024

Mr. Barney Chan
Alameda County Department of Environmental Health
80 Swan Way
Oakland, CA 94614

ST 10 2974

Subject: Response to Review Comments on Preliminary Site Characterization Report

Reference: (a) Preliminary Site Characterization Report, Right Away Redy Mix,
401 Kennedy Street, Oakland, CA, dated January 24, 1992.

Dear Mr. Chan:

In response to your review comments we would like to present the following clarifications to reference (a).

Ground water was encountered at depths of 12 to 12.5 feet below the ground surface in the exploratory borings at the time of drilling (in the sandy clay/clayey sand unit) and the ground water subsequently rose in each boring to approximately 10 feet which suggested that a hydrostatic pressure condition existed. Based on the low moisture content of the samples obtained from 9 to 13 feet deep in the borings, it was determined that the overlying silty clay units (upper 12 feet) represented a confining boundary. As such, the screened sections of the piezometers were restricted to the saturated zone (minimizing the potential for upward/downward migration of contaminants should they be present). The attached boring logs and well construction diagrams reflect the correct water elevations recorded at the time of drilling and indicate the construction of each piezometer.

Reference (a) should be amended as follows:

Page 3, Paragraph 5 should be deleted and replaced with "Groundwater was encountered in borings 1 and 2 at a depth of 12.5 feet and in boring 3 at a depth of 12 feet below the ground surface at the time of drilling. Ground water subsequently rose to depths of 9 to 10 feet indicating that a hydrostatic pressure condition existed."

We hope that this information is sufficient for you to proceed with the review of the report. Should you require additional information, please contact our office.

Respectfully submitted,

Geo Plexus, Incorporated



David C. Glick, CEG 1338
Director of Geological and
Environmental Services

Copy to:

Right Away Redy Mix
Mr. Geoffrey Henrikson

SUBSURFACE DATA LOG

LOG No. P-1 DATE: 12/27/91
 LOCATION: Right Away Redy Mix
 EQUIPMENT: Exploration Geoservices
 PROJECT No. P91024

DRY DENSITY (lbs cu. ft.)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft.)	SAMPLE TYPE	DEPTH (ft.)	LOG	U.S.C.
					SC	<u>CLAYEY SAND</u> to <u>SANDY CLAY</u> , dark brown, damp, medium dense <u>FILL</u> - with occasional medium gravels, small brick fragments and pieces of wire
	28		S1	5	CL	<u>SILTY CLAY</u> , medium brown to dark gray brown with some light gray mottling, moist, stiff
	38		S2	10		-increasing to very stiff -minor iron staining
	52		S3 S4			-Groundwater first encountered at 12.5 feet.
					CL/ SC	<u>SANDY CLAY</u> to <u>CLAYEY SAND</u> , light to medium brown, moist to wet, very stiff
				15	SC	<u>CLAYEY SAND</u> with small gravels, medium brown, wet, dense to very dense.
	59		--	20		Boring terminated at 20.0 feet. 2" diameter piezometer constructed

Figure 3.

SUBSURFACE DATA LOG

LOG No. P-2 DATE: 12/27/91
 LOCATION: Right Away Redy Mix
 EQUIPMENT: Exploration Geoservices
 PROJECT No. P91024

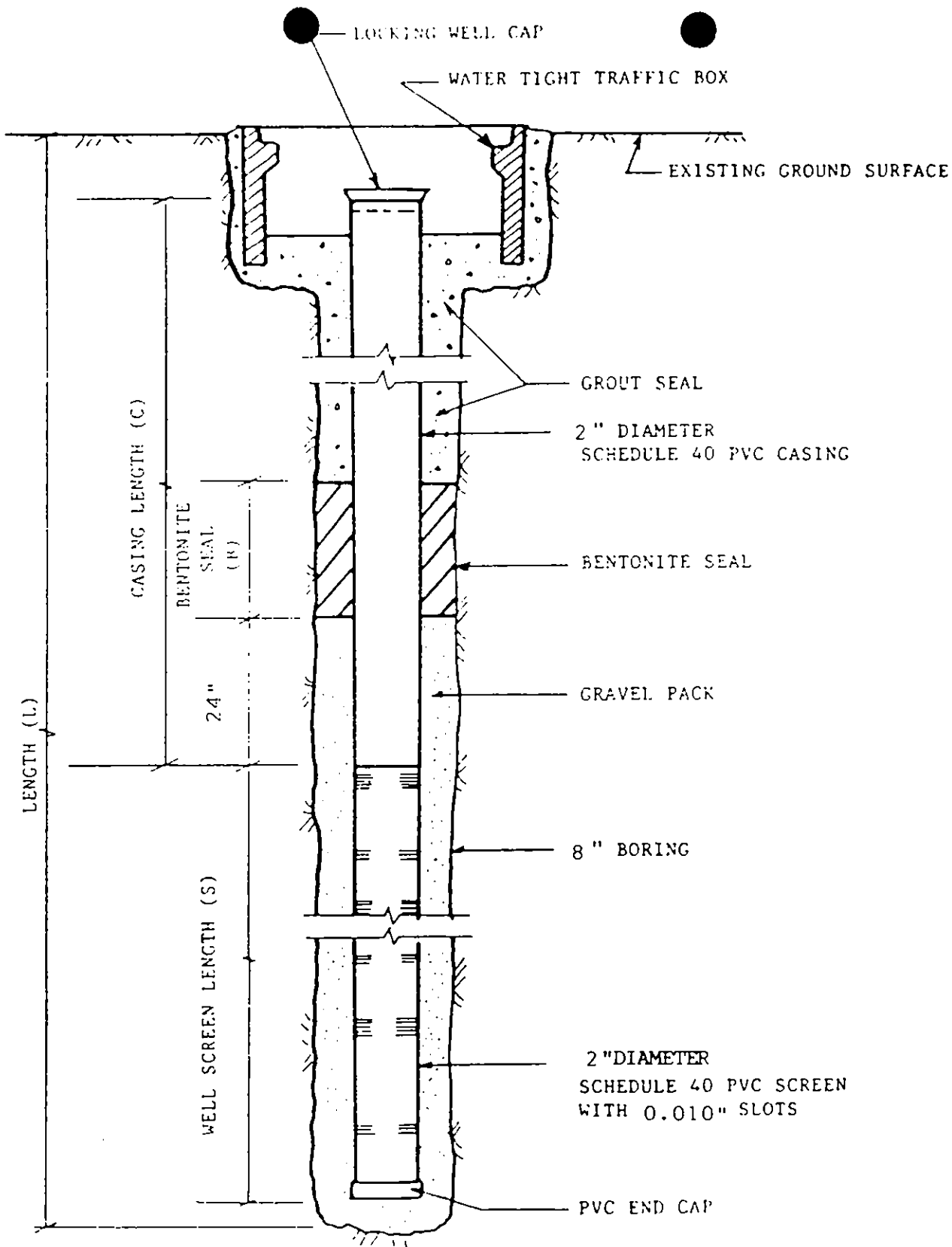
DRY DENSITY (lbs cu ft)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft)	SAMPLE TYPE	DEPTH (ft)	LOG	U.S.C.
					CL	<u>SANDY CLAY</u> , with some medium grained sand, dark brown, moist, stiff <u>FILL</u>
	23		S1	5	CL	<u>SILTY CLAY</u> , medium brown-gray with some iron staining, moist, stiff
		33	S2	10	CL	<u>SILTY CLAY</u> , grayish brown, moist, stiff to very stiff
		65	S3	12.5		▼ -Groundwater first encountered at 12.5 feet.
				15	SC	<u>CLAYEY SAND</u> , medium grained sand with few small gravels ($\frac{1}{4}$ inch), medium brown, wet, dense to very dense
	50/5"			20		Boring terminated at 19.5 feet. 2" diameter piezometer constructed

Figure 4.

SUBSURFACE DATA LOG

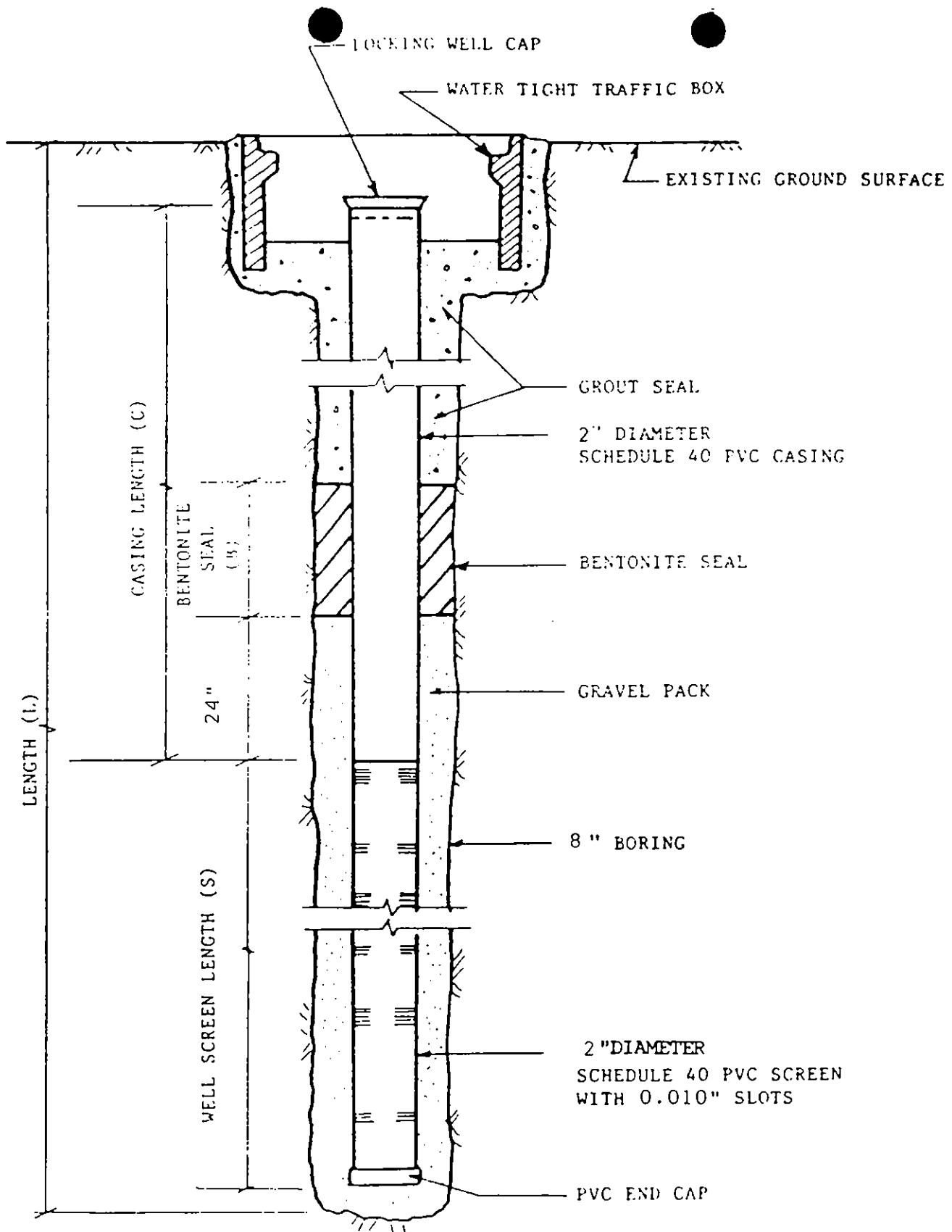
DRY DENSITY (lbs. cu. ft.)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft.)	SAMPLE TYPE	DEPTH (ft.)	LOG	U.S.C.	LOG No. <u>P-3</u> DATE: <u>12/27/91</u> LOCATION: <u>Right Away Redy Mix</u> EQUIPMENT: <u>Exploration Geoservices</u> PROJECT No. <u>P91024</u>
	13		S1	5	CL		<u>SILTY CLAY</u> , medium brown with some gray mottling, moist, stiff; slight petroleum odor
	65		S2	10	CL		
	50/4"		S3				-Groundwater first encountered at 12 feet.
	74		S4	15	SC		<u>CLAYEY GRAVELLY SAND</u> , medium grained sand with some gravels from 1/4" to 3/8", medium to dark brown, moist to very moist, very dense -wet, hard
	41		S5	20			
							Boring terminated at 19.0 feet. 2" diameter piezometer constructed

Figure 5.



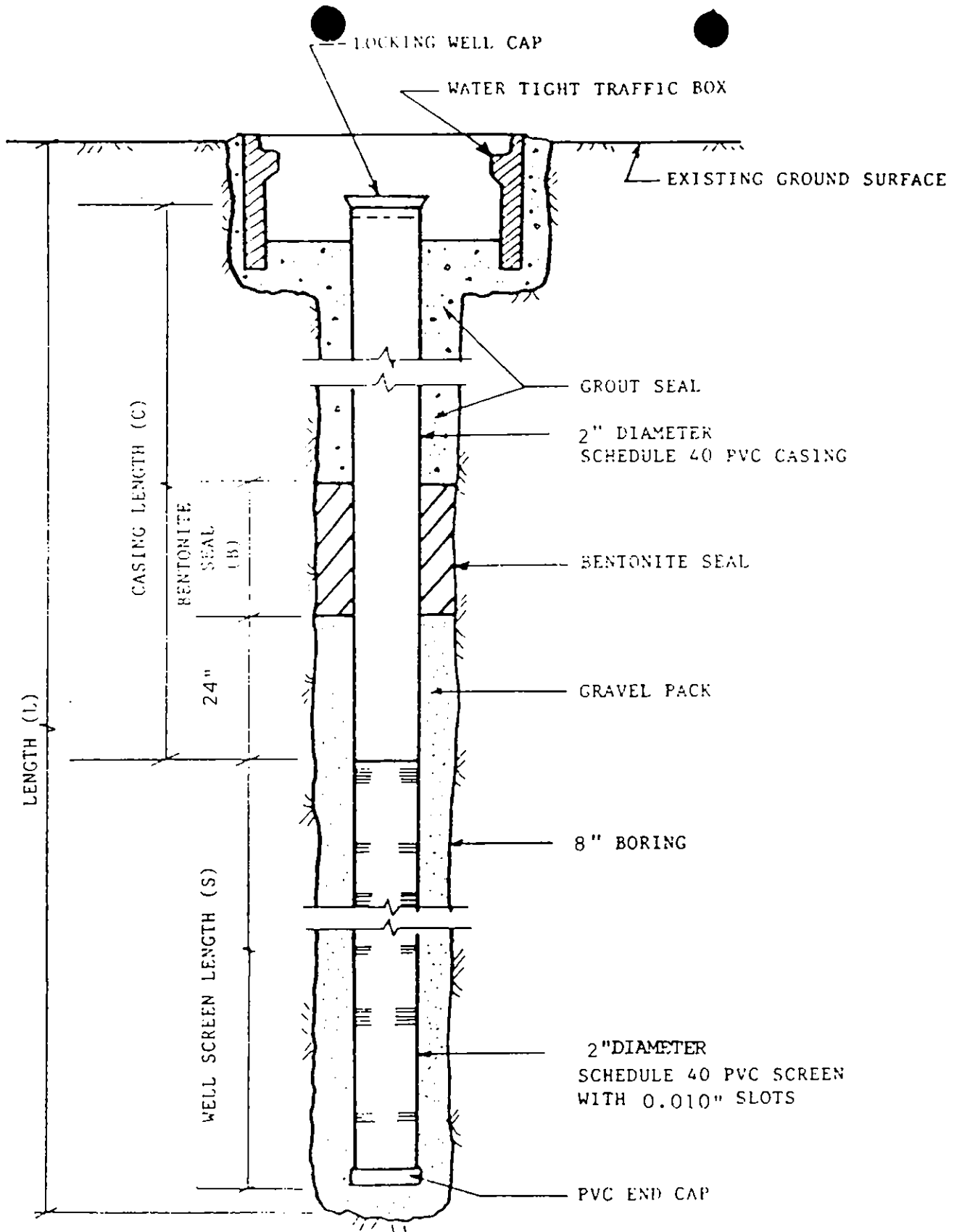
L= 20.0 feet
 S= 10.0 feet
 C= 10.0 feet
 B= 1.0 feet

PIEZOMETER P-1		
DATE	SCALE	DRAWN BY
12-27-91	N/A	JCM
Right Away Redy Mix		
		Figure 6



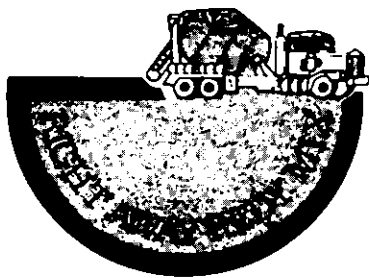
L= 19.5 feet
 S= 10.0 feet
 C= 9.5 feet
 B= 1.0 feet

PIEZOMETER P-2		
DATE 12/27/91	SCALE N/A	DRAWN BY JCM
Right Away Redy Mix		
		Figure 7



L= 19.0 feet
 S= 10.0 feet
 C= 9.0 feet
 B= 1.0 feet

PIEZOMETER P-3		
DATE	SCALE	DRAWN BY
12/27/91	N/A	JCM
Right Away Redy Mix		
		Figure 8



401 Kennedy Street, Oakland, CA 94606 510 536-1900 FAX 510 769-1785

April 16, 1992

Barney M. Chan
Dept. of Environmental Health
Hazardous Materials Program
80 Swan Way, Rm. 200

Dear Mr. Chan:

I must apologize that this report is so long in coming. I was under the impression that the engineer was forwarding a copy to you. I was interested in where we stood and called him today to see what you and he had worked out. I then found out that he is waiting for me to get a response form you as to the next step. Anyway, I guess it is my fault for not making sure things were progressing.

Please read the enclosed report. I will call you next week to get your reaction and recommendations on what we have to do next. If you get to the report sooner and want to call me, feel free to do so at any time. The number at the office I am usually is 769-6242.

Thank you for your cooperation in this matter.

Sincerely,

Geoffrey V. Henrikson
Geoffrey V. Henrikson

Have problems w/ parameter / new diagram

*4/22/92 Called David Glick, he said there's
an error in the permeance diagrams.*

Col Kennedy John ~~Sutton~~ (KTW)

① extract turtles

②

BTEX ND

Bottom Spile 380

2,3,4,5 -210 Composite

① Eastlake-

② Julie Ann Way - 2nd round

4 tanks pulled

91 DEC 23 PM 1:44
December 20, 1991
Project P91024-3

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

ST 10 2974

Subject: Work Plan for Preliminary Site Characterization Investigation
Right Away Redy Mix, 401 Kennedy Street, Oakland, CA

Dear Mr. Henrikson:

In accordance with our agreement, Geo Plexus, Incorporated is pleased to submit the attached Work Plan and Health & Safety Plan for advancing four exploratory borings and the installation of three open standpipe piezometers at the subject site. Based on a ground water survey, the "down-gradient" piezometer would be developed as a ground water monitoring well and sampled.

This Work Plan describes the proposed site investigation activities for a supplemental assessment of the ground water resources at the subject property. A Copy of this Work Plan has been submitted to Mr. Barney Chan, Alameda County Department of Environmental Health. The proposed scope of work has been discussed with Mr. Chan and has tentatively been approved pending submittal of this Work Plan.

An application for a Piezometer/Monitoring Well Permit has been submitted to Alameda County Flood Control and Water Conservation District - Zone 7 for approval. The field investigation is scheduled to be performed on December 27, 1991.

Should you have questions regarding the attached Work Plan or the proposed schedule, please contact our office.

Respectfully submitted,

Geo Plexus, Incorporated

David C. Glick, CEG 1338
Director, Geological and
Environmental Services

Attachments: (1) Work Plan
(2) Health & Safety Plan

cc: BARNEY CHAN
Alameda County

Preliminary Site Characterization Investigation
Work Plan
for
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California. The site is currently occupied by Right Away Redy Mix.

SCOPE OF WORK

Based on information obtained during our site visit, from KTW & Associates personnel, and from hydrogeologic reports prepared for the adjacent property (Lonestar), it is our position that four exploration borings should be advanced in the immediate vicinity of the existing underground storage tank at the project site (see Figure 1). Due to local variations in ground water flow directions, information was not available to assure the "site-specific" direction of ground water flow. Therefore, three of the borings would be completed as open-standpipe piezometers to evaluate the site-specific direction of ground water flow. The "down-gradient" piezometer would be developed as a ground water monitoring well and sampled.

The proposed scope of work is outlined below:

- (1) advancing four subsurface exploration borings, collection of soil samples, and completing three of the borings as open-standpipe piezometers;
- (2) determine direction of ground water flow and gradient across the site; and
- (3) development the "down-gradient" piezometer as a monitoring well and collection of ground water samples for analytical testing;
- (4) performing analytical testing on the soil and ground water samples; and
- (5) preparation of a report documenting the findings of the investigation and presenting the results of the analytical testing.

Specifics of the individual investigative phases are described in the following sections of this Work Plan.

SUBSURFACE EXPLORATION

Subsurface Borings

Four subsurface exploration borings would be advanced at the project site at the locations identified on Figure 1 to characterize the subsurface soil conditions and to obtain soil samples for analytical testing.

The borings would be drilled by Exploration Geoservices, State of California Licensed Drilling Contractor, C57 License No. 489288. The borings would be logged under the supervision of a State of California Certified Engineering Geologist. Since three of the exploratory borings are intended to be completed as open-standpipe piezometers (and 1 as a ground water monitoring well), Alameda County Flood Control and Water Conservation (Zone 7) Piezometer/Well Permits would be obtained prior to drilling the exploratory borings.

The drill cuttings and soil samples obtained from the borings would be monitored during drilling to observe moisture changes in the soils and to determine the depth of the first saturated zone. The boring which would not be converted to a piezometer/monitoring well would be terminated upon intercepting ground water and would be grout filled upon completion of drilling. It is intended that the boring(s) for the monitoring well(s) would be advanced a minimum of 10 feet into the saturated zone (estimated total boring depth of 25 feet) unless a low permeable material is encountered prior to achieving this depth. Should a low permeable zone be encountered prior to achieving the 10 foot depth, the screened interval of the well would be reduced such that the low permeable zone is not penetrated to protect underlying aquifers.

The soil borings would be advanced using an eight-inch, nominal diameter, continuous flight hollow stem auger. Drilling and sampling equipment used for advancing the exploratory borings would be thoroughly steam cleaned before drilling begins and between each boring to prevent the introduction of off-site contamination and cross contamination between borings. Sampling equipment would be cleaned between sample events by steam cleaning or using a phosphate-free detergent bath and double rinsed in hot water baths to prevent cross contamination.

Pre-cleaned stainless steel or brass liners would be placed in the sampler to retain the soil. The drilling and sampling equipment would be steam cleaned subsequent to completion of the field activities. Soil cuttings and rinsate waters derived from the borings/cleaning would be retained in 55-gallon containers and stored on-site during the drilling pending results of the analytical testing.

Soil samples would be obtained at five (5) foot intervals throughout the borings, at changes in lithology, and where obvious soil contamination exists through the use of a 2 inch I.D. split-barrel sampler advanced into the undisturbed soil by a 140 pound hammer repeatedly falling 30 inches. Sand catchers would be used as necessary to retain the samples. A split-barrel, standard penetration sampler would be used should the 2 inch sampler prove ineffective at obtaining the samples. The drill cuttings and soil samples would be monitored in the field for evidence of hydrocarbon content through the use of a portable photo-ionization detector (PID), organic vapor meter (OVM), or similar device.

The soil samples would be immediately sealed in the liners using aluminum foil and plastic caps and properly labeled including: the date, time, sample location, and project number. The samples would be placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

Piezometer Construction

The piezometers would be constructed in accordance with Alameda County Monitoring Well Construction Guidelines by installing 2-inch diameter polyvinyl chloride (PVC) flush-threaded casing and slotted pipe directly through the hollow stem auger. The slotted section of the PVC pipe installed through the saturated zone would have 0.010 inch factory perforations. The slotted pipe would extend a minimum of two feet above the current ground water level to monitor fluctuations in the ground water level. Materials used in the piezometer construction would be thoroughly cleaned prior to introduction into the boring.

The piezometers would be filter-packed with clean monterey silica sand throughout the screened interval. The filter material would be determined based on lithology encountered during drilling and would likely consist of No. 2/16 Lonestar Sand. The filter-pack material would be installed in the annular spacing between the piezometer pipe and the auger as the auger is removed and would extend a minimum of two feet above the top of the screened interval. To assure continuity and integrity of the filter material, and to prevent the bore hole from caving, no more than five foot of auger would be removed at a time.

A one foot thick layer of bentonite pellets would be placed above the filter material to provide an annular seal and the remainder of the boring would be filled with an 11-sack sand-cement slurry to within one foot of grade under direct observation of Alameda County inspection personnel. Should ground water exist in the boring/piezometer in excess of two feet above the bentonite seal, the cement slurry would be placed using the tremmie-method. The piezometer casing would have a locking cap and will be enclosed inside a watertight cast iron or aluminum traffic box installed in concrete flush with the surface.

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Ground Water Depth and Gradient Measurements

The location and elevation of each piezometer would be verified and surveyed for determination of site-specific ground water flow direction and gradient. Vertical control would be to the nearest 0.01 inch. Water levels in the piezometers would be measured using an electronic water level probe. The depth to water measurements would be consistently recorded from a scribed location on the top of the piezometer casing. The depth to water measurements would be used to determine the direction of ground water flow and ground water gradient beneath the project site.

MONITORING WELL DEVELOPMENT AND SAMPLING

The "down-gradient" piezometer would be developed as a ground water monitoring well. The monitoring well would be allowed to stabilize for a minimum of 48 hours following construction prior to development activities. The initial well development would be through the use of a 1.7 inch Brainard-Kilman mechanical lift hand pump, an air-lift or nitrogen-lift pump, or a positive displacement bladder pump dependent on the depth to ground water and the screened interval. The well would be developed until a minimum of four well volumes have been purged and the discharged water appears clear of sediment. Electrical conductivity, temperature, and pH of the ground water would be recorded throughout the development process. The well development would continue until the electrical conductivity, temperature, and pH of the discharged water have stabilized. Depth to water measurements would be recorded prior to and following the well development activities.

The well would be allowed to recover for a minimum of 48 hours between development and sampling activities. Free product measurements would be obtained utilizing a product/ground water interface probe or through the use of an acrylic or teflon bailer lowered into the well to obtain a surface water sample. The teflon bailer would be used to collect a surface water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Depth to water measurements would be also be recorded at this time using an electronic water level probe.

Prior to sampling, a minimum of four well volumes would be purged from the well through the use of a positive displacement bladder pump or teflon bailer. Electrical conductivity, temperature, and pH of the ground water would be recorded throughout the purging process. The purging activities would continue until the electrical conductivity, temperature, and pH of the discharged water have stabilized. Water samples for analytical testing would be obtained through the use of the bladder pump or teflon bailer. The water developed from the monitoring wells would be contained on-site pending receipt of the laboratory test results.

The water samples would be collected in sterilized glass vials with Teflon lined screw caps. The samples would be immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives added to the sample. The samples would be placed on ice immediately for transport to the laboratory under chain-of-custody documentation. Travel blanks or duplicate field blanks are not anticipated to be carried or collected.

Free Product Measurements

Free product measurements would be obtained at the time of each sample acquisition utilizing a product/ground water interface probe or through the use of an acrylic or teflon bailer lowered into the well to obtain a surface water sample. The teflon bailer would be used to collect a surface water sample to observe the presence of hydrocarbon odors, visible sheen, or free product.

ANALYTICAL TESTING

Soil and ground water samples would be submitted to and tested by Anametrix Inc., a State of California, Department of Health Services certified testing laboratory. Analytical testing would be scheduled and performed in accordance with the State of California, Regional Water Quality Control Board Guidelines.

Soil samples would be tested for Total Petroleum Hydrocarbons as diesel by RWQCB Method GCFID (3510/8015) and Volatile Aromatics by EPA Method 8020.

The ground water samples would be tested for Total Petroleum Hydrocarbons as diesel by RWQCB Method GCFID (3510/8015) and Volatile Aromatics by EPA Method 8020.

REPORT

A report documenting the findings and observations of the investigation and the results of the analytical laboratory testing would be prepared to include: the findings and boring logs for the subsurface investigation, well logs and well development records; analytical test data, chain-of-custody records, along with other pertinent information obtained throughout the investigative process.

SCHEDULE

The field investigation has been tentatively scheduled to begin on December 27, 1991.

The subsurface investigation and installation of the piezometers are anticipated to be accomplished in one day. It is estimated that the gradient survey, well developed, well purging and sampling would be accomplished during the following two weeks. Standard analytical testing turnaround time of two (2) weeks is anticipated to be used unless directed otherwise. The final report would be submitted within two weeks following receipt of the analytical test data for the ground water samples (estimated January 24, 1992).

Respectfully submitted,

Geo Plexus, Incorporated

DCG:dg

Health & Safety Plan
for
Preliminary Site Characterization Investigation
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

INTRODUCTION

This Health & Safety Plan (HSP) has been prepared for the subsurface investigation work to be performed at 401 Kennedy Street in the City of Oakland, in Alameda County, California. The site is currently occupied by Right Away Redy Mix.

The HSP establishes safety procedures to be followed to alert field personnel and others at the investigation site to potential hazards that could be encountered while conducting the subsurface investigation work and identifies the personal protective equipment required for the specific field activities.

This HSP generally complies with Federal Health and Safety regulations (29 CFR 1910 and 1926), California Health and Safety regulations as set forth in Title 8 of the California Administrative Code, and guidance established by the California Department of Health Services. This plan is to be used by Geo Plexus, Incorporated personnel as a supplement to presented regulations and guidance. Geo Plexus, Incorporated does not accept responsibility for subcontractor employee or property owner actions on any site.

APPLICABLE CODES, STANDARDS, AND REGULATIONS

California Health and Safety Code
Title 22, California Code of Regulations
California State Industrial Safety Orders
29 CFR (Code of Federal Regulations)
40 CFR (Code of Federal Regulations)
California Leaking Underground Fuel Tank (LUST) Manual

PERSONNEL

The field exploration work would be performed under the direction of Ms. Jonisue C. Minor, Project Geologist. The Project Manager for this project is Mr. David C. Glick. Ms. Minor will serve as the Site Safety Officer (SSO) for the field exploration and will perform on-site inspection and monitoring during the drilling. Mr. John Collins (Exploration Geoservices), or assigned driller if Mr. Collins is not assigned to the project, will be the drilling supervisor during the field investigation and would be responsible for operating the drill rig and coordinating the drilling activities. Grouting activities will be performed under the direction and coordination of Mr. Collins.

The SSO must be on-site whenever work is being performed unless an alternate SSO, assigned during the tailgate safety meeting, has been delegated to be acting and all field personnel notified of the change in personnel responsibility. The SSO or any other employee of Geo Plexus Incorporated working within the project area is authorized to suspend work when working conditions become too hazardous and to remove from the site any employee of Geo Plexus, Incorporated or subcontractor employees whose conduct endangers the health and safety of the employee or of others.

The SSO has the responsibility for performing air monitoring for compliance with this SSP and to ensure that the required work practices are employed and correcting work practices that may result in injury or potential exposure to hazardous substances.

Geo Plexus, Incorporated and subcontractor personnel assigned to perform field activities covered by this plan must have active health and safety clearance statuses, which mean that during the past 12 months, they have been cleared to wear respirators and perform their field assignments and have satisfied health and safety training requirements specified in 29 CFR 1910.120 (e).

Anticipated visitors to the project site include representatives from the Alameda County Environmental Health Department and the property owner. Visitors to the project site would be subjected to comply with all regulations, including OSHA 29 CFR 1910.134 (Respiratory Protection) and 29 CFR 1910.120 (Hazardous Waste Operations).

DESCRIPTION OF WORK

The work to be performed consists of advancing four soil borings to an estimated depth of 25 feet below the ground surface, using an eight-inch, nominal diameter, continuous flight hollow stem auger. Three of the borings would be completed as open-standpipe piezometers.

Details of the actual field activities are presented in the Attached Work Plan for the project site which is incorporated herein by reference.

JOB HAZARD ANALYSIS

Site hazards identified with the subsurface exploration and well construction activities include those encountered when operating mechanical equipment along those hazards associated with Portland Cement, grout mixing equipment, and grouting processes.

Site specific hazards exist due to the physical location of the proposed borings/wells include: underground pipelines and utilities, vehicle traffic around the existing facility, pedestrian traffic, and the potential for hazardous materials (defined below) to exist in the soils and ground water encountered by the borings/wells.

Since the investigation is located in the vicinity of a former underground gasoline storage tank, volatile organic compounds associated with halogenated hydrocarbon compounds, chlorinated hydrocarbon compounds, aromatic hydrocarbon compounds, and gasoline products have the potential to be present at the site.

It is anticipated that potential chemical exposure to site personnel could exist for short periods of time (intermittent for one field day). However if a site is unknown or not fully characterized, then the potential for exposure to elevated concentrations of fuel products could occur. Therefore, a brief overview of potential hazards associated with gasoline (highest probable constituent) is presented below:

Cal-OSHA Permissible Exposure Limit (PEL): 300 ppm
ACGIH Threshold Limit Value (TLV): 300 ppm
ACGIH Short Term Exposure Limit (STEL): 500 ppm

GENERAL SAFE WORK PRACTICES

Field personnel, equipment operators, and visitors to the site would be briefed each day in a "tailgate" safety meeting at which time specific daily objectives are discussed and equipment to be used on-site are identified. Potential contaminants which could be encountered during the investigation and risks from exposure and emergency procedures would also be reviewed. All personnel entering the project area (defined as 75 feet from the drill rig) would be required to sign the tailgate safety meeting form documenting their understanding of the HSP. A copy of this HSP and the Work Plan would be available at the job site at a location identified during the tailgate safety meeting.

A regulated project area shall be established as 75 feet from the drill rig. Within the project area, safety equipment shall be worn and smoking, eating, drinking, and use of tobacco products shall be prohibited. The work area defined in this plan includes 20 feet from the drill rig. The project area includes 75 feet from the drill rig. The project area would be marked with barricades and yellow "Caution" flagging to inhibit access to the area.

All field personnel working within the project area will be required to wear personal protection equipment (defined later in this safety plan) as directed by the SSO during the tailgate safety meeting or as directed by the SSO during the field investigation activities.

All personnel assigned to this project shall have been trained and fitted for use of respiratory protective equipment required for this project and any other protective equipment assigned to them.

The drilling and well installation is anticipated to be completed by the end of each working day. As such, fencing or additional site control measures would not be required. Barricades would be left in-place overnight over the completed monitoring wells to allow the concrete seal to cure. Temporary fencing would be installed around the drums containing the drill cuttings and rinsate water.

EXPOSURE MONITORING

Permissible Exposure Levels (PEL) established by the California Code of Regulations or 29CFR 1900.1000 Standards shall be adopted for the site.

Air monitoring shall be conducted on a continuous basis to monitor ambient air conditions within the project area to detect the presence of volatile organic vapors. The monitoring would be performed through the use of a Thermo Environmental 580A Organic Vapor Meter (OVM) or Photovac Photo-Ionization Detector (PID). Samples of the soil materials derived from the borings would be visually inspected and monitored with the OVM or PID to detect emission of volatile organic vapors to detect the presence of hydrocarbon contamination (as gasoline and/or diesel).

During drilling operations, vapor emissions from the boreholes will be measured through the use of the OVM or PID as the cuttings are generated from the borehole, when the auger is extracted from the boring, and during backfilling of the boring. The vapor measurements will be made at a minimum of two zones: approximately 12 inches above ground level adjacent to the auger; and with the breathing zone of the field personnel.

Should the vapor concentrations detected at the ground level zone exceed 1,000 ppm (level of audible alarm) or exceed the PEL within the breathing zone, operations would be suspended, the drill rig motor shut off, and personnel would be directed to remove themselves from the immediate area of the drill rig. The OVM would be removed from the drilling area with the field personnel to continue monitoring the ambient air conditions. Re-entry into the drilling area (20 feet from the drill rig) would be permitted upon reduced volatile concentrations (as determined by the audible alarm shutting off and a minimum 30-minute air monitoring period of readings below the PEL) or by personnel equipped with respirators equipped with appropriate organic cartridges. Work would not resume until an assessment has been made by the SSO and appropriate procedures, which include engineering control measures (i.e. increased ventilation or air circulation, etc), each personnel wearing respirators with appropriate organic cartridges, or each individual wearing supplied air or self contained breathing apparatus equipment and the SSO authorizes continuation of work.

PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment to be worn by all field personnel in the work area shall consist of neoprene or butyl steel toed boots (calf-length), hard hats, hearing protection, and work gloves. During operations involving eye hazards, safety goggles or glasses shall be worn.

Should inclement weather arise during the field activities, rain gear shall be worn at the discretion of the employee. Rain gear will not be used to replace required protective gear as required by the SSO.

Protective clothing such as polyethylene coated Tyvek coveralls could be worn as an option of the employee. Uncoated Tyvek coveralls may be worn within the work area in general use.

Nitrile, butyl or neoprene gloves must be worn when handling contaminated soil or water encountered during drilling. Surgical vinyl or latex inner gloves are recommended to be worn.

NIOSH-approved respiratory protection shall be worn by personnel potentially exposed to dust during the excavation and shall consist of, as a minimum, fitted half-face respirators equipped with air-purifying (particulate) cartridges.

NIOSH-approved respiratory protection shall be worn when organic vapors are determined to be present within the excavation at concentrations exceeding the PEL as indicated by the field monitoring equipment (OVM or PID). Respiratory protection shall include, as a minimum, fitted half-face air-purifying respirators equipped with organic vapor cartridges. Should concentrations exceed 2xPEL, as determined by the OVM or PID, the investigation activities shall be halted and field personnel shall be required to exit the work area. Personnel re-entering the work area shall be required to be fitted with positive pressure self-contained breathing apparatus (SCBA's). SCBA's shall be required until the concentrations diminish below 2xPEL. Atmospheres greater than 10% LEL, or less than 20% oxygen shall not be entered until the area is properly ventilated and the excavation is determined to be safe to enter by the SSO.

DECONTAMINATION

Decontamination of field equipment is required through steam cleaning and use of phosphate-free detergents as set forth in the work plan for the project. Field decontamination of personnel is not required except when contamination is obvious (visually, by odor, irritation, etc.). Petroleum hydrocarbon products should be removed from skin using a mild detergent and water. Hot water is more effective than cold water. The on-site steam cleaner would be a source of hot water if required. Liquid dish washing detergent is more effective than hand soap.

CONTINGENCY PLANS

Limited first-aid equipment (band aids, antiseptic wipes, cold packs, etc.) would be available at the construction site at a location specified during the tailgate safety meeting. A fire extinguisher will be available along with the drill rig and the location will be identified during the tailgate safety meeting.

Two gallons of de-ionized or distilled water will be available with the first aid equipment should water be required for flushing eyes for dislodging foreign particles or as necessary for first aid applications.

Directions to emergency phone access would be provided during the tailgate safety meeting. A portable cellular phone will be available at the project site and is located in the SSO's vehicle. Field personnel would be instructed about the location and operation of the phone during the tailgate safety meeting.

An alternate SSO would be identified during the tailgate safety meeting to function as SSO in the event the SSO becomes injured and is not capable of performing or coordination emergency activities.

The SSO will notify the PM of any emergency conditions which encountered during the investigation. If the SSO is incapacitated or absent from the site the designated alternate SSO will perform this notification.

In the event of accident, injury, or other emergency the SSO would notify appropriate government agencies or individuals as follows:

Police, Fire, or Ambulance emergency: 911

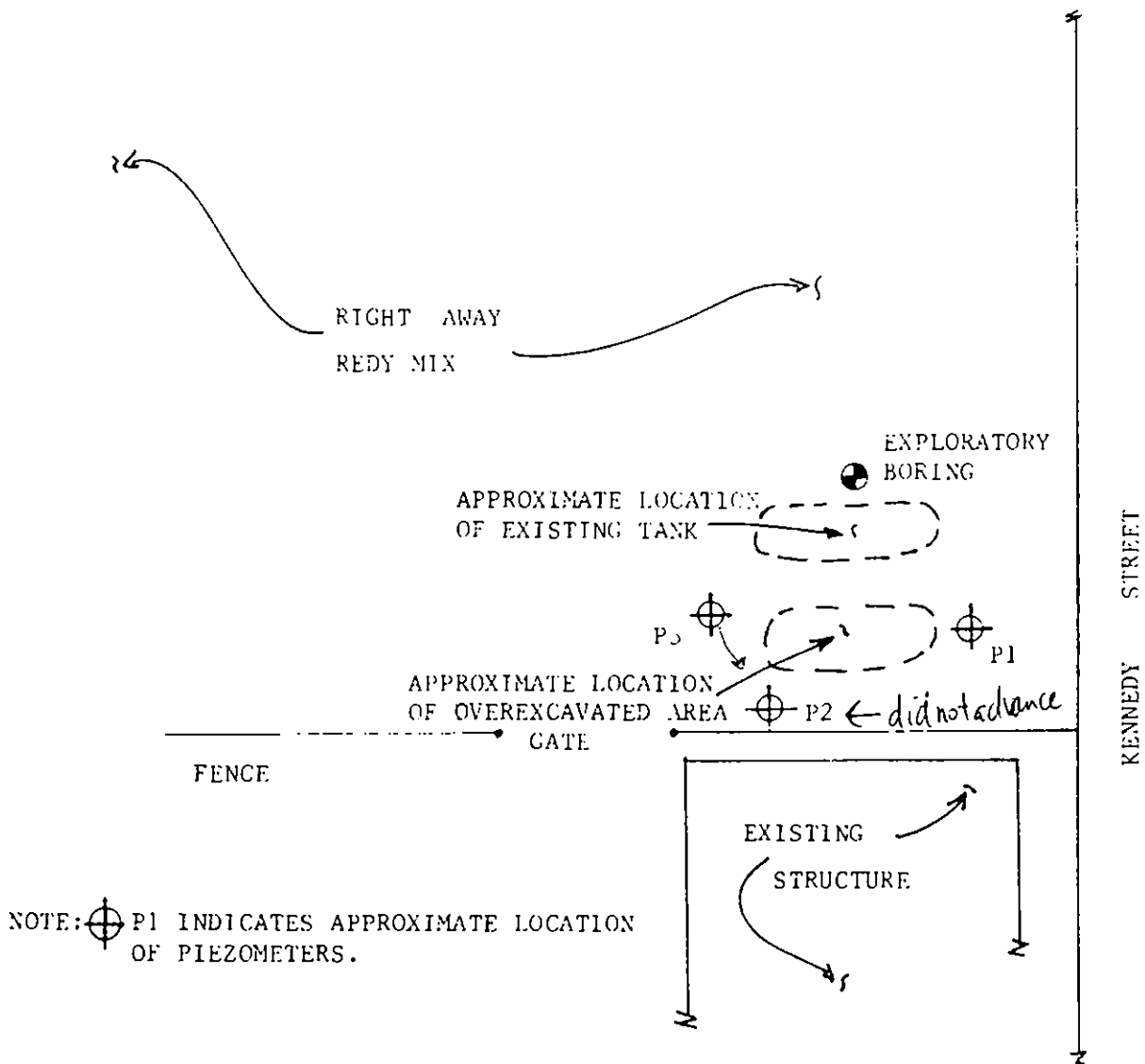
Nearest Emergency Hospital: Oakland Hospital
2648 E. 14th, Oakland
(510) 532-6300

Exploration Geoservices:(408) 280-6822

Geo Plexus, Incorporated: (408) 287-8588

Right Away Redy Mix: (510) 536-1900
Mr. Geoffrey Henrikson

DCG:dg



RIGHT AWAY REDY MIX		
DATE 12-20-91	SCALE N/A	DRAWN BY DCG
SITE PLAN		
		Figure 1

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



December 3, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Mr. Jeff Henrikson
Right Away Redy Mix
401 Kennedy St.
Oakland, CA 94606

Re: Work Plan for Subsurface Investigation at Right Away Redy Mix,
401 Kennedy St., Oakland, CA 94606

Dear Mr. Henrikson:

Our division has received and reviewed the proposed work plan for the above site provided us by Mr. David Glick of Geo Plexus, Incorporated. As mentioned in the work plan, evidence must be provided as to the assumed ground water gradient, otherwise a minimum of three monitoring wells must be installed. Your consultant has provided the locations of the proposed well locations and these are acceptable. You should initiate the proposed work immediately.

You may contact me at (510) 271-4320 should you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
D. Glick, Geo Plexus, Inc., 753 North 9th Street, Suite 131,
San Jose, CA 95112-3150
E. So, RWQCB

RightAwayWP

GeoPlexus, Inc.

Health & Safety Training • Geo-Environments • Personnel • Engineering Geology Consultants • Environmental Management Consultants

FAX TRANSMITTAL COVER SHEET

DATE: NOV 22, 1991

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 13

VERIFICATION OF RECEIPT REQUIRED? YES _____ NO

TO: MR. BARNEY CHAN

COMPANY: ALAMEDA County

BUSINESS PHONE: _____

FAX PHONE: (415) 568 3704

SPECIAL FAX INSTRUCTIONS: _____

FROM: DAVID GLICK

REPRESENTING: W & Assoc

PROJECT: Right Away Ready Mix

BUSINESS PHONE: _____ FAX PHONE: _____

REMARKS: Copy of proposal / scope of work for your info.

Paul

IF THERE WERE ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CALL:

Nov 27 diligence -
4 borings - 3 piezometers
1 - down gradient developed into M.W.

GeoPlexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

November 21, 1991
Proposal 91AC11E3

Mr. Jeff Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

Subject: Proposal for Advancing Four Soil Borings and Installation of Three Ground Water Monitoring Wells at Right Away Redy Mix, 401 Kennedy Street, Oakland, CA

Reference: (a) Telephone Conversation with Mr. Barney Chan, Alameda County Department of Environmental Health, November 19, 1991
(b) Telephone Conversation with Mr. Jeff Henrikson, November 19, 1991

Dear Mr. Henrikson;

In response to your request, Geo Plexus, Incorporated is pleased to present this Proposal to provide you with Engineering Geology and Environmental Consulting Services for a preliminary assessment of the subsurface soil and ground water conditions present at the subject site. At the direction of Mr. John Sutfin of KTW & Associates, this proposal has been submitted directly to you with a copy to KTW and to Barney Chan. Based on information derived during reference (a), the minimum scope of work for this preliminary assessment includes advancing four exploratory borings in the immediate vicinity of the existing underground storage tank (and dispensing pump) and converting three of the borings to ground water monitoring wells. This scope of work is expanded from the scope of work discussed during reference (b) with the addition of completing two other borings as monitoring wells. This difference arose since the direction of ground water flow beneath the subject site has not been determined with sufficient accuracy to identify which boring should be converted to a monitoring well (well is to be in the "down-gradient direction from the tank and dispensing pump). Should additional information become available during the literature research/work phase of work which would better define the "site specific" ground water flow direction (such as well information from the nearby Lonestar facility), it is anticipated that the scope of work could be reduced from installation of three wells to the initially proposed installation of one monitoring well.

SCOPE OF WORK

Based on information obtained during our site visit, from KTW & Associates personnel, and from references (a) and (b), it is our position that four exploration borings should be advanced in the immediate vicinity of the existing underground storage tank at the project site. At the direction of Mr. Chan, three of the borings would be completed as a ground water monitoring well to assess the potential impact to the soil and ground water resources from the former underground storage tank. Should additional information become available during the literature research/work phase of work which would better define the "site specific" ground water flow direction, it is our position that the scope of work could be modified and only one of the borings (located "down-gradient of the storage tank and dispensing pump) would be completed as a ground water monitoring well.

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 2

The proposed scope of work is outlined below:

- (1) review existing reports on file with the Alameda County Environmental Health Department and/or Regional Water Quality Control Board to better define the direction of ground water flow beneath the project site;
- (2) preparation and submittal of a Work Plan and Monitoring Well Permits to the Alameda County Environmental Health Department for approval;
- (3) advancing four subsurface exploration borings, collection of soil samples, and completing three of the borings as a ground water monitoring wells;
- (4) development of the monitoring wells and collection of ground water samples for analytical testing;
- (5) performing analytical testing on the soil and ground water samples; and
- (6) preparation of a report documenting the findings of the investigation and presenting the results of the analytical testing.

Specifics of the individual investigative phases are described in the following sections of this Proposal:

Regulatory Agency Record Review

Existing reports on file with the Alameda County Environmental Health Department and/or the Regional Water Quality Control Board would be reviewed to better define the direction of ground water flow beneath the project site. This information would be used to determine the "down-gradient" direction from the existing storage tank and to reduce the number of ground water monitoring wells installed at the site.

Work Plan

Following review of the existing site documentation, a Work Plan would be prepared describing the nature of the work to be performed at the site which would be submitted to the Alameda County Department of Environmental Health for review and approval. Monitoring Well Permits and a Site Safety Plan would be submitted for permits issuance.

Subsurface Borings

Four subsurface exploration borings would be advanced at the project site at the locations identified during our discussion. It is anticipated that the borings would be drilled by Exploration Geoservices, State of California Licensed Drilling Contractor, C57 License No. 489288. The borings would be logged under the supervision of a State of California Certified Engineering Geologist. Since potentially three of the exploratory borings are intended to be completed as a ground water monitoring wells, Alameda County Monitoring Well Permits would be obtained prior to drilling the exploratory borings.

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 3

The drill cuttings and soil samples obtained from the borings would be monitored during drilling to observe moisture changes in the soils and to determine the depth of the first saturated zone. The boring(s) which would not be converted to monitoring wells would be terminated upon intercepting ground water and would be grout filled upon completion of drilling. It is intended that the boring(s) for the monitoring well(s) would be advanced a minimum of 10 feet into the saturated zone (estimated total boring depth of 25 feet) unless a low permeable material is encountered prior to achieving this depth. Should a low permeable zone be encountered prior to achieving the 10 foot depth, the screened interval of the well would be reduced such that the low permeable zone is not penetrated to protect underlying aquifers.

The soil borings would be advanced using an eight-inch, nominal diameter, continuous flight hollow stem auger. Drilling and sampling equipment used for advancing the exploratory borings would be thoroughly steam cleaned before drilling begins and between each boring to prevent the introduction of off-site contamination and cross contamination between borings. Sampling equipment would be cleaned between sample events by steam cleaning or using a phosphate-free detergent bath and double rinsed in hot water baths to prevent cross contamination.

Pre-cleaned stainless steel or brass liners would be placed in the sampler to retain the soil. The drilling and sampling equipment would be steam cleaned subsequent to completion of the field activities. Soil cuttings and rinsate waters derived from the borings/cleaning would be retained in 55-gallon containers and stored on-site during the drilling pending results of the analytical testing.

Soil samples would be obtained at five (5) foot intervals throughout the borings, at change in lithology, and where obvious soil contamination exists through the use of a 2 inch I.D. split-barrel sampler advanced into the undisturbed soil by a 140 pound hammer repeatedly falling 30 inches. Sand catchers would be used as necessary to retain the samples. A split-barrel, standard penetration sampler would be used should the 2 inch sampler prove ineffective at obtaining the samples. The drill cuttings and soil samples would be monitored in the field for evidence of hydrocarbon content through the use of a portable photo-ionization detector (PID), organic vapor meter (OVM), or similar device.

The soil samples would be immediately sealed in the liners using aluminum foil and plastic caps and properly labeled including: the date, time, sample location, and project number. The samples would be placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

Monitoring Well Construction

The monitoring well(s) would be constructed in accordance with Alameda County Monitoring Well Construction Guidelines by installing 2-inch diameter polyvinyl chloride (PVC) flush-threaded casing and slotted pipe directly through the hollow stem auger. The slotted section of the PVC pipe installed through the saturated zone would have 0.020 inch factory perforations. The slotted pipe would extend a minimum of two feet above the current ground water level to monitor fluctuations in the ground water level. Materials used in the well construction would be thoroughly cleaned prior to introduction into the boring.

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 4

The monitoring well would be filter-packed with clean monterey silica sand throughout the screened interval. The filter material would be determined based on lithology encountered during drilling and would likely consist of No. 3 Monterey Sand or No. 2/12 Lonestar Sand. The filter-pack material would be installed in the annular spacing between the monitoring well pipe and the auger as the auger is removed and would extend a minimum of two feet above the top of the screened interval. To assure continuity and integrity of the filter material, and to prevent the bore hole from caving, no more than five foot of auger would be removed at a time.

A one foot thick layer of bentonite pellets would be placed above the filter material to provide an annular seal and the remainder of the boring would be filled with an 11-sack sand-cement slurry to within one foot of grade under direct observation of Alameda County inspection personnel. Should ground water exist in the boring/well in excess of two feet above the bentonite seal, the cement slurry would be placed using the tremmie-method. The well casing would have a locking cap and will be enclosed inside a watertight cast iron or aluminum traffic box installed in concrete flush with the surface.

Well Development and Sampling

The monitoring well would be allowed to stabilize for a minimum of 48 hours following construction prior to development activities. The initial well development would be through the use of a 1.7 inch Brainard-Kilman mechanical lift hand pump, an air-lift or nitrogen-lift pump, or a positive displacement bladder pump dependent on the depth to ground water and the screened interval. The well would be developed until a minimum of four well volumes have been purged and the discharged water appears clear of sediment. Electrical conductivity, temperature, and pH of the ground water would be recorded throughout the development process. The well development would continue until the electrical conductivity, temperature, and pH of the discharged water have stabilized. Depth to water measurements would be recorded prior to and following the well development activities.

The well would be allowed to recover for a minimum of 48 hours between development and sampling activities. Free product measurements would be obtained utilizing a product/ground water interface probe or through the use of an acrylic or teflon bailer lowered into the well to obtain a surface water sample. The teflon bailer would be used to collect a surface water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Depth to water measurements would be also be recorded at this time using an electronic water level probe.

Prior to sampling, a minimum of four well volumes would be purged from the well through the use of a positive displacement bladder pump or teflon bailer. Electrical conductivity, temperature, and pH of the ground water would be recorded throughout the purging process. The purging activities would continue until the electrical conductivity, temperature, and pH of the discharged water have stabilized. Water samples for analytical testing would be obtained through the use of the bladder pump or teflon bailer. The water developed from the monitoring wells would be contained on-site pending receipt of the laboratory test results.

Geo Plexus, Incorporated
753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 5

The water samples would be collected in sterilized glass vials with Teflon lined screw caps. The samples would be immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives added to the sample. The samples would be placed on ice immediately for transport to the laboratory under chain-of-custody documentation. Travel blanks or duplicate field blanks are not anticipated to be carried or collected.

Ground Water Depth and Gradient Measurements

Should three monitoring wells be constructed at the project site, the location and elevation of each would be verified for determination of ground water flow direction and gradient. Vertical control would be to the nearest 0.01 inch. Water levels in the wells would be measured using an electronic water level probe. The depth to water measurements would be consistently recorded from a scribed location on the top of the well casing. The depth to water measurements would be used to determine the direction of ground water flow and ground water gradient beneath the project site.

Free Product Measurements

Free product measurements would be obtained at the time of each sample acquisition utilizing a product/ground water interface probe or through the use of an acrylic or teflon bailer lowered into the well to obtain a surface water sample. The teflon bailer would be used to collect a surface water sample to observe the presence of hydrocarbon odors, visible sheen, or free product.

Analytical Testing

Soil and ground water samples would be submitted to and tested by a State of California, Department of Health Services certified testing laboratory. Analytical testing would be scheduled and performed in accordance with the State of California, Regional Water Quality Control Board Guidelines.

Soil samples would be tested for Total Petroleum Hydrocarbons as diesel by RWQCB Method GCFID (3510/8015) and Volatile Aromatics by EPA Method 8020. (BTEX)

The ground water samples would be tested for Total Petroleum Hydrocarbons as diesel by RWQCB Method GCFID (3510/8015) and Volatile Aromatics by EPA Method 8020.

Report

A report documenting the findings and observations of the investigation and the results of the analytical laboratory testing would be prepared to include: the findings and boring logs for the subsurface investigation, well logs and well development records; analytical test data, chain-of-custody records, along with other pertinent information obtained throughout the investigative process.

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 6

CORPORATE PROFILE

Geo Plexus, Incorporated (Geo Plexus) is a multidiscipline engineering geology and environmental management consulting firm providing Federal health and safety training and comprehensive professional consulting services to commercial, industrial, and government clients. Geo Plexus is a Woman-Owned, Small Business enterprise comprised of three divisions.

Our Safety Services Division offers a full range of Federal and State mandated Health and Safety Training Programs to satisfy the current training requirements of the Federal OSHA Regulations 29 CFR 1910.120 and upcoming training requirements of CAL-OSHA 5192. Our Engineering Services Division offers a unique service in the provision of geologic and environmental personnel on an "as-needed" basis to meet our clients staffing needs. Our Consulting Division offers professional consulting services including: geology, seismology, hydrogeology, risk assessment, hazardous and toxic materials assessments and investigations, hazardous materials management, technical information research services, and regulatory compliance management as described in the following section. ✓

GEO PLEXUS CONSULTING DIVISION

The Consulting Division of Geo Plexus is a multidiscipline engineering geology and environmental management consulting firm providing comprehensive professional consulting services to commercial, industrial, and government clients. These services include: geology, seismology, hydrogeology, risk assessment, hazardous and toxic materials assessments and investigations, hazardous materials management, technical information research services, and regulatory compliance management.

Our personnel provide diversified experience in engineering geology, hydrology, and environmental management services (including hazardous materials investigation, classification, and remediation services). The Geo Plexus staff has extensive experience in performing geologic and environmental site assessment investigations encompassing nearly all physiographic provinces of Northern California.

Geo Plexus Consulting Division provides a full range of engineering geology and environmental management services including:

- Property Development Feasibility Studies
- Preacquisition/Property Transfer Site Assessments
- Hazardous Materials Site Assessments
- Leaking Underground Storage Tank Assessments
- Soil and Ground Water Contamination Investigations
- Development and Implementation of Remedial Action Programs
- Subsurface Drainage System Design
- Irrigation and Domestic Water Supply Well Systems
- Fault Hazard Investigations and Seismic Risk Assessments

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 7

Preliminary Environmental Site Assessments

Geo Plexus Consulting Division performs Preliminary Environmental Site Assessments (also referred to as Phase I and Phase II Site Assessments) for commercial and residential properties for investors, lending institutions, appraisers, public agencies, real estate brokers, and attorneys.

Our assessments include a review of the existing site conditions, current land use, and torical land development of the project site and the surrounding properties. Regulatory sgency documents are reviewed for historical and on-going operational practices, existence of leaking surface or underground storage tanks, visual indications of possible mishandling of toxic substances (e.g., spills or accidents, cleanup operations, etc.), previous testing by others, and punitive actions.

Our reports are prepared to provide a clear understanding of the project site and surrounding properties along with an evaluation of the potential for on-site or off-site migration of hazardous materials occurring in the vicinity of the site.

Soil and Ground Water Contamination Investigations

Geo Plexus personnel are experienced in performing and developing solutions for a broad spectrum of soil and ground water contamination problems. For each project, we provide a multidisciplinary team with the expertise necessary to define the scope of the problem, perform the necessary investigation studies, analyze the data, and provide sound cost effective recommendations.

The staff at Geo Plexus have extensive experience in obtaining samples of soil, rock, buried waste, and fluids through installation of subsurface soil borings, monitoring wells, and test pits. Our personnel have obtained vast field experience in design and installation of ground water monitoring and extraction wells under differing geologic environments including development of water sources located stratigraphically below contaminated aquifers. Our field staff personnel are thoroughly familiar with Federal, State, and Local Municipality regulatory requirements and have received intense training and certification in compliance with OSHA requirements.

Appropriate Quality Assurance protocols are implemented for each investigation to assure personnel safety and protection of the environment and to assure the integrity of rock, soil, water samples obtained in the field. The Quality Assurance protocols document all field sampling techniques, sample preservation techniques, and sample shipping/custody documentation from the field site to the laboratory. Geo Plexus personnel are familiar with the requirements for containment and disposal of hazardous materials encountered during field investigations. Comprehensive project specific Site Health and Safety Plans are implemented to minimize generation of waste products as a result of subsurface exploration, soil/water sampling, monitoring well development, or material characterization activities.

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
 Right Away Redy Mix
 Oakland, CA

November 21, 1991
 Page 8

Soil and Ground Water Remediation

Geo Plexus personnel have diverse experience with soil and ground water remediation techniques. Soil remediation programs include: enhanced soil aeration, soil venting, vapor extraction, bioremediation, composting and nutrient feed systems. Ground water treatment programs include: ground water extraction combined with carbon adsorption and/or air stripping to remove chlorinated hydrocarbons.

Projects have included:

- Product Recovery Well Systems
- On-Site Bioremediation Treatment
- Ground Water Treatment Systems
- In-Situ Soil Treatment

Geologic/Seismic Hazard and Risk Assessment

Geo Plexus geologists have extensive field experience in identification and classification of geologic structures, fault systems, and other geologic hazards throughout the Western United States. Seismic hazard assessments performed throughout the greater San Francisco Bay include investigations of the Hayward, Greenville, Chabot, and Antioch faults. Primary and Secondary Geologic and Seismic Hazards evaluated as potential site hazards include:

- Ground Surface Rupture and Ground Deformation
- Ground Shaking
- Liquefaction, Lurch Cracking, and Induced Settlement
- Slope Stability and Lateral Spreading
- Probabilistic Risk Assessment

Geologic and seismic hazard investigations are performed through photogeologic interpretation, geologic mapping, geophysical exploration methods, and subsurface exploration (trenching and exploratory borings). Our personnel are trained in direct and remote field techniques to identify rock, soil, and soft sediment deformation for evaluation of geologic structures and evidence of faulting in exploration trenches and subsurface borings.

Development Feasibility

Geo Plexus Consulting Division staff have been responsible for performing geologic and geotechnical engineering investigations for residential, commercial, industrial, municipal and Government facilities throughout California, Nevada, Arizona, Washington and Alaska. These investigations have included performing preliminary and detailed site reconnaissance evaluations, extensive site specific subsurface investigations, hillside stability evaluations, and ground water monitoring for foundation and earthwork recommendations.

Our personnel have extensive experience in preparation of construction project designs and engineering documentation for large and small developments. Our staff has been responsible for the preparation of design plans, specifications, and budget cost estimates along with advertisement, selection, and negotiation of construction contracts.

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 9

PERSONNEL

Geo Plexus Consulting Division management and staff personnel present varied and diversified training, field experience, and management skills which prove to be the basis for our multidisciplinary approach to project assignments. The Professional Team assembled for this project comprises exceptionally qualified individuals with extensive first-hand experience with performing geologic and environmental investigations. A brief description of the qualifications of our principal personnel are presented on the following pages.

David Glick, Senior Engineering Geologist, has over 14 years of experience in management, engineering geology, ground water hydrology, geotechnical engineering, and construction technology in industry and government. His experience is varied as to geographic region, technical disciplines, and size and complexity of tasks. Coupling his knowledge of the multidisciplinary fields of engineering geology and geotechnical engineering, results in practical solutions to problems on projects under his direction and guidance.

Jonisue Minor, Senior Project Geologist, has over 14 years of experience in engineering geology, ground water hydrology, and geotechnical engineering. Ms. Minor has been the City of San Jose Assistant Engineering Geologist for the last three years performing geologic review of investigation reports and construction documents for developments within San Jose. Ms. Minor has completed geologic and geotechnical engineering investigations throughout the greater San Francisco Bay Area for both residential and commercial developments.

ISAAC HUVAL has over 30 years of professional geologic experience in field geology, environmental geology, ground water hydrology, and petroleum geology throughout the United States. Mr. Huval has performed detailed geologic and environmental investigations throughout the United States and holds a certification for SARA Waste Management Operations.

JAY JAMALI, Contract Safety Specialist, has performed numerous safety audits and develops compliance documentation for Federal, State, and Local regulations. He is involved in performing industrial hygiene sampling and functions as site specific safety manager for investigations of hazardous materials.

Resumes for key individuals are provided on the following pages.

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 10

PERSONAL PROFILE

DAVID GLICK
Senior Engineering Geologist

REGISTRATION

Registered Geologist #4139: California
Certified Engineering Geologist #1338: California
Registered Environmental Assessor #01246: California

EDUCATION

B.S., Geology, San Diego State University, 1980

PROFESSIONAL AFFILIATIONS

Association of Engineering Geologists
Earthquake Engineering Research Institute
Seismological Society of America
National Water Well Association

PROFESSIONAL EXPERIENCE AND BACKGROUND

Mr. Glick has been responsible for the management and execution of preliminary environmental site (Phase I and II) assessments, geologic studies, and hydrogeologic investigations throughout California for the assessment of leaking surface and underground storage tanks, electroplating surface impoundment closures, and landfill investigations. Specific project requirements have included performing subsurface investigations, ground water monitoring, determination of soil properties and hydraulic characteristics, and the assessment of contaminant migration. These investigations have resulted in the evaluation of soil and ground water remediation technologies, preparation of remediation feasibility studies, and the design of site specific remedial action plans.

Mr. Glick has recently completed geologic hazard and seismic risk assessment investigations throughout the San Francisco Bay Area and San Joaquin Valley for residential and commercial developments. These investigations included extensive subsurface exploration augmented with photogeologic interpretation, geologic mapping, and soil stratigraphic analysis to define the nature and extent of faulting and to evaluate the potential hazards associated with faulting and earthquake activity.

From 1980 through 1988, Mr. Glick served as an engineering geologist for the Western Division, Naval Facilities Engineering Command and was responsible for performing geologic, geotechnical engineering, and hydrologic investigations throughout the western United States. Mr. Glick has performed environmental hazard assessments and hydrogeologic investigations for leaking underground and surface fuel tanks and hazardous materials at various Navy and Marine Corps facilities. He was responsible for the selection, negotiations, and direct management of government consultant contracts for investigation and preparation of remedial action construction contracts. His work included managing extensive geotechnical investigations and environmental evaluations for the dredging and disposal of contaminated sediments related to the Navy's west coast Homeporting projects.

Geo Plexus, Incorporated

753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal - Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 11

PERSONAL PROFILE

JONISUE MINOR
Senior Project Geologist

EDUCATION

B.S., Geology, San Jose State University, 1981

PROFESSIONAL AFFILIATIONS

Association of Engineering Geologists
Geological Society of America
Association for Women Geoscientists

PROFESSIONAL EXPERIENCE AND BACKGROUND

Jonisue C. Minor has over 14 years of experience in management, engineering geology, ground water hydrology, and geotechnical engineering in government and private industry. Ms. Minor was the Assistant City Geologist for the City of San Jose from 1989 to 1991 during which time she performed geologic reviews of investigation reports, evaluations of submittals related to the geologic hazard and grading ordinances, General Plan amendments, environmental impact reports, and responses to City Council inquiries.

From 1986 through 1989 Ms. Minor served as a project geologist for the Western Division, Naval Facilities Engineering Command and was responsible for performing geologic, geotechnical engineering, and hydrologic investigations throughout the western United States. She performed environmental hazard assessments and hydrogeologic investigations for leaking underground and surface fuel tanks and hazardous materials at various Navy and Marine Corps facilities.

From 1977 through 1986 she completed geologic and geotechnical engineering investigations throughout the greater San Francisco Bay Area for both residential, commercial, and government developments. These investigations included extensive geophysical and subsurface exploration, augmented with photogeologic interpretations, geologic mapping, and soil stratigraphic analysis to define the nature of faulting and landslide potential, and to evaluate the potential hazards associated with faulting and earthquake activity.

Geo Plexus, Incorporated
753 N. 9th Street, Suite 131, San Jose, CA 95112

Proposal Preliminary Site Characterization
Right Away Redy Mix
Oakland, CA

November 21, 1991
Page 12

SCHEDULE AND FEES

We would mobilize for this project within one week of your approval and authorization to proceed. We anticipate that the Work Plan and Well Permits would be completed and submitted within one week from project initiation. The subsurface exploration would be initiated approximately one week following submittal of the Work Plan and Permits. We anticipate that the laboratory testing would be completed within three weeks and that the report would be completed within two weeks following receipt of the analytical test data.

Our fees for this work would be computed in accordance with our current FEE SCHEDULE, a copy of which is attached. Based on this schedule, we estimate that the total charges for the scope of work outlined herein would be as follows:

Document Review and Preparation of Work Plan and Permits	\$ 650
Subsurface Investigation	\$ 4,000
Well Development and Sampling	\$ 700
Analytical Testing	\$ 1,500
Report Preparation	\$ 800

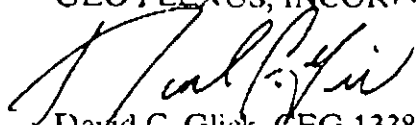
Estimated Total:	\$ 7,650

Should only one monitoring well be required in stead of three, the estimated fees would be reduced by \$1,500.

Enclosed are two copies of our Standard Form Agreement for your review. Prior to initiation of work, a deposit of \$ 2,200 is required to cover out-of-pocket expenses (including analytical testing, etc.). This deposit would be credited to payment of the work performed. If Geo Plexus, Incorporated is selected for this project, please sign and return both copies of the Agreement along with the deposit as our authorization to proceed. We will return an executed copy of the agreement for your files.

Respectfully submitted,

GEO PLEXUS, INCORPORATED


David C. Glick, CEG 1338
Director, Geological and
Environmental Services

Geo Plexus, Incorporated
753 N. 9th Street, Suite 131, San Jose, CA 95112

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Right Away Peds Mix Today's Date 11/12/91
 Site Address 401 Kennedy St EPA ID# _____
 City Oak Zip 94606 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month? _____

- Inspection Categories:**
- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 - II. Business Plans, Acute Hazardous Materials
 - III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

- I.A. GENERATOR (Title 22)**
- 1. Waste ID * 66471
 - 2. EPA ID 66472
 - 3. > 90 days 66508
 - 4. Label dates 66508
 - 5. Biennial 66493
-
- Manifest**
- 6. Records 66492
 - 7. Correct 66484
 - 8. Copy sent 66492
 - 9. Exception 66484
 - 10. Copies Rec'd 66492
-
- Misc.**
- 11. Treatment 66371
 - 12. On-site Disp. (H.S.&C.) 26189.5
 - 13. Ex Haz. Waste 66570
-
- Prevention**
- 14. Communications 67121
 - 15. Able Space 67124
 - 16. Local Authority 67126
 - 17. Maintenance 67120
 - 18. Training 67105
-
- Conlin. Agency**
- 19. Prepared 67140
 - 20. Name List 67141
 - 21. Copies 67141
 - 22. Emg. Coord. Trng. 67144
-
- Containers, Tanks**
- 23. Condition 67241
 - 24. Compatibility 67242
 - 25. Maintenance 67243
 - 26. Inspection 67244
 - 27. Buffer Zone 67246
 - 28. Tank Inspection 67259
 - 29. Containment 67245
 - 30. Safe Storage 67261
 - 31. Freeboard 67257

Comments: Sam of KTW present

Inspected all pressurized tanks as it was being sorped. No bubbles noticed. Had the brass box & overflow box sorped at 1400 & will recheck at 1600 hr, rechecked water level @ 1545 & looked ok

0.75 hr total

- I.B. TRANSPORTER (Title 22)**
- 32. Applic./Insurance 66428
 - 33. Comp. Cert./CHP insp. 66448
 - 34. Containers 66465
-
- Manifest**
- 35. Vehicles 66465
 - 36. EPA ID #s 66531
 - 37. Correct 66541
 - 38. HW Delivery 66543
 - 39. Records 66544
-
- Contra**
- 40. Name/ Covers 66545
 - 41. Recyclables 66800

Rev 6/88

Contact: _____
 Title: _____
 Signature: _____

Inspector: Bla
 Signature: _____

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name _____ Today's Date ____/____/____

Site Address _____ EPA ID# _____

City _____ Zip **94** _____ Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
Hazardous Waste generated per month?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A. GENERATOR (Title 22)

- 1. Waste ID * 66471
- 2. EPA ID 66472
- 3. > 90 days 66508
- 4. Label dates 66508
- 5. Biennial 66493

- Manifest**
- 6. Records 66492
 - 7. Correct 66484
 - 8. Copy sent 66492
 - 9. Exception 66484
 - 10. Copies Rec'd 66492

- Misc.**
- 11. Treatment 66371
 - 12. On-site Diso. (H.S.&C.) 26189.5
 - 13. Ex Haz. Waste 66570

- Prevention**
- 14. Communications 67121
 - 15. Aisle Space 67124
 - 16. Local Authority 67126
 - 17. Maintenance 67120
 - 18. Training 67105

- Cont'n. gency**
- 19. Prepared 67140
 - 20. Name List 67141
 - 21. Copies 67141
 - 22. Emg. Coord. Trng. 67144

- Containers, tanks**
- 23. Condition 67241
 - 24. Compatibility 67242
 - 25. Maintenance 67243
 - 26. Inspection 67244
 - 27. Buffer Zone 67246
 - 28. Tank Inspection 67259
 - 29. Containment 67245
 - 30. Safe Storage 67261
 - 31. Freeboard 67257

I.B. TRANSPORTER (Title 22)

- 32. Applic. Insurance 66428
- 33. Comp. Cert./CHP Insp. 66448
- 34. Containers 66465

- Manifest**
- 35. Vehicles 66465
 - 36. EPA ID #s 66531
 - 37. Correct 66541
 - 38. HW Delivery 66543
 - 39. Records 66544

- Cont'n's**
- 40. Name/ Covers 66545
 - 41. Recyclables 66800

Comments:

Rev 6/88

Contact: _____

Title: _____

Signature: _____

Inspector: _____

Signature: _____

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



*Did I include the
"work plan" and analytical
report?*

November 5, 1991

Right Away Ready Mix
Mr. Geoffrey Henrikson
401 Kennedy St.
Oakland CA 94606

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Re: Dispenser Modification and Upgrade for Diesel Tank at
Right Away Ready Mix, 401 Kennedy St., Oakland CA 94606

Dear Mr. Henrikson:

Our office has become aware of diesel contamination in soil arising from a subsurface investigation during the performance of the above referenced work at your site. Initial contaminated fill material was uncovered under the former dispenser area. Mr. John Sutfin of KTW, your contractor, informed our office of this situation. Initially, additional backfill/soil was removed from this area and soil sample was taken at the six foot level. To expedite this work, I split soil samples at the six foot depth level. One sample was taken to the County Environmental Health Lab and the other offered to an outside commercial lab. The idea was not to stop progress if the contamination was limited. On November 4, 1991, I received the results of the County lab's analysis. Enclosed, please find a copy of these results. They indicate the soil sample collected at the six foot level contains 1645 ppm, (parts per million), total petroleum hydrocarbon as diesel, TPHd. Because of these results, you are aware that KTW performed additional excavation enlarging the pit laterally as well as vertically to a depth of 9-9.5 feet. Soil samples from each sidewall and the pit floor were taken to determine if the overexcavation had removed all contaminated soil. Further work will be dictated by the analytical results of these samples.

Because of the analytical results obtained by the Environmental Health Lab, this site is considered to have experienced an unauthorized petroleum hydrocarbon fuel release, the extent of which must be assessed and remediated. Enclosed please find an Underground Tank Unauthorized Release (Leak)/ Contamination Site Report for you or your designee to complete. Please return to our office within thirty (30) days, the completed form along with a work plan which addresses the above concerns. Attached please find the contents of a "typical" work plan to use as guidance.

In addition, you are requested to send a check payable to Alameda County Environmental Health in the amount of \$432.00, the oversight fee for the modification of one underground tank. Be aware that this fee is set by County Ordinance. All plan review, site inspections,

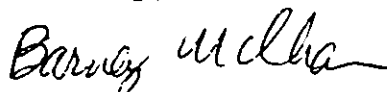
Mr. Geoffrey Henrikson
401 Kennedy St., Right Away Ready Mix
November 5, 1991
Page 2.

and other related work pertaining to this investigation will be deducted from this deposit at a rate of \$67.00/hr and any unused monies will be refunded to you at the completion of this project.

Please be aware that this is a formal request for technical documents pursuant to the California Water Code, Section 13267 (b). Any extensions of agreed upon deadlines must be confirmed in writing by either this Division or the Regional Water Quality Control Board, RWQCB. All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and the RWQCB to the attention of Mr. Eddy So. Their address is : 2101 Webster St., 4th Floor, Oakland, CA 94612.

You may contact me at (510) 271-4320 should you have any questions regarding this letter.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

enclosures

cc: G. Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Division

E. So, RWQCB
H. Hatayama, DOHS
T. Gregory, KTW

401KennWP

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

435 23rd Ave
Charles Campenella

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Right Away Ready Mix Today's Date 11/7/91
 Site Address 401 Kennedy St EPA ID# _____
 City Oak Zip 94606 Phone _____

MAX Amt. Stored > 500lbs/55g/200cr? Y N
 Hazardous Waste generated per month? _____

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

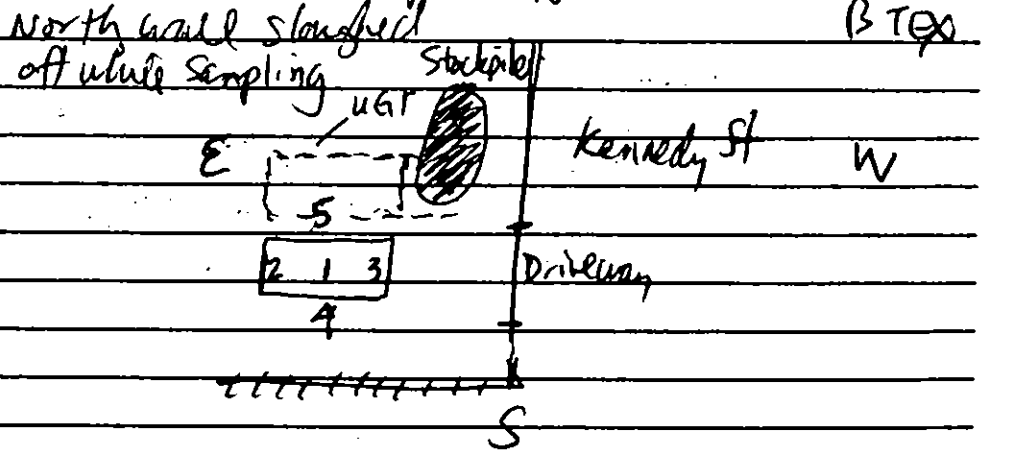
The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

- | | | |
|-------|-----------------------------|---------|
| _____ | 1. Waste ID | 66471 |
| _____ | 2. EPA ID | 66472 |
| _____ | 3. > 90 days | 66508 |
| _____ | 4. Label dates | 66508 |
| _____ | 5. Biennial | 66493 |
| <hr/> | | |
| _____ | 6. Records | 66492 |
| _____ | 7. Correct | 66484 |
| _____ | 8. Copy sent | 66492 |
| _____ | 9. Exception | 66484 |
| _____ | 10. Copies Rec'd | 66492 |
| <hr/> | | |
| _____ | 11. Treatment | 66371 |
| _____ | 12. On-site Disp. (H.S.&C.) | 26189.5 |
| _____ | 13. Ex Haz. Waste | 66570 |
| <hr/> | | |
| _____ | 14. Communications | 67121 |
| _____ | 15. Aisle Space | 67124 |
| _____ | 16. Local Authority | 67126 |
| _____ | 17. Maintenance | 67120 |
| _____ | 18. Training | 67105 |
| <hr/> | | |
| _____ | 19. Prepared | 67140 |
| _____ | 20. Name List | 67141 |
| _____ | 21. Copies | 67141 |
| _____ | 22. Emg. Coord. Trng. | 67144 |
| <hr/> | | |
| _____ | 23. Condition | 67241 |
| _____ | 24. Compatibility | 67242 |
| _____ | 25. Maintenance | 67243 |
| _____ | 26. Inspection | 67244 |
| _____ | 27. Buffer Zone | 67246 |
| _____ | 28. Tank Inspection | 67259 |
| _____ | 29. Containment | 67245 |
| _____ | 30. Safe Storage | 67261 |
| _____ | 31. Freeboard | 67257 |

Comments: Uu.

Pit area under former dispenser has been widened & deepened to ~ 9-9.5'. Pit is currently ~ 6' x 9' x 9.5'. Soil sples taken from pit bottom (1) East end of pit (2), West side (actually a floor sple) (3), South wall sple (#4) ~ 1' in from inside side wall end from the North wall (5). Sples can be taken as a composite but would need ~ 20ppm to consider no problem. W because of IPH to BTEX.



I.B TRANSPORTER (Title 22)

- | | | |
|-------|---------------------------|-------|
| _____ | 32. Appc./Insurance | 66428 |
| _____ | 33. Comp. Cert./CHP Insp. | 66448 |
| _____ | 34. Containers | 66465 |
| <hr/> | | |
| _____ | 35. Vehicles | 66465 |
| _____ | 36. EPA ID #s | 66531 |
| _____ | 37. Correct | 66541 |
| _____ | 38. HW Delivery | 66543 |
| _____ | 39. Records | 66544 |
| <hr/> | | |
| _____ | 40. Name/ Covers | 66545 |
| _____ | 41. Recyclables | 66800 |

Tom Gregory + John S. present + splers

Rev 6/88
 Contact: _____
 Title: _____
 Signature: _____
 Inspector: _____
 Signature: _____

(IMPORTANT MESSAGE)

FOR B-C
DATE 11/1/91 TIME 1:20 P.M.
M DARCY
OF LAB

PHONE _____
AREA CODE NUMBER EXTENSION

TELEPHONED	PLEASE CALL	<input checked="" type="checkbox"/>
CAME TO SEE YOU	WILL CALL AGAIN	
WANTS TO SEE YOU	RUSH	
RETURNED YOUR CALL	SPECIAL ATTENTION	

MESSAGE CHIN
(10:45 pm) Right Away
Ready Milk
Govt Hendrikson - (Pres)

SIGNED _____

LITHO IN U.S.A.

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

401 Kenn WP

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Right Away Ready Mix Today's Date 10/30/91
Site Address 401 Kennedy St EPA ID# _____
City Oak Zip 94606 Phone 536-1900

MAX Amt Stored > 500lbs/55g/200cf? Y N
Hazardous Waste generated per month? _____

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

	1. Waste ID	66471
	2. EPA ID	66472
	3. > 90 days	66508
	4. Label dates	66508
	5. Biennial	66493
Manifest	6. Records	66492
	7. Correct	66484
	8. Copy sent	66492
	9. Exception	66484
	10. Copies Rec'd	66492
Misc.	11. Treatment	66371
	12. On-site Disp. (H.S.&C.)	26189.5
	13. Ex Haz. Waste	66570
Prevention	14. Communications	67121
	15. Aisle Space	67124
	16. Local Authority	67126
	17. Maintenance	67120
	18. Training	67105
Contn. Agency	19. Prepared	67140
	20. Name List	67141
	21. Copies	67141
	22. Emg. Coord. Trng.	67144
Containers, Tanks	23. Condition	67241
	24. Compatibility	67242
	25. Maintenance	67243
	26. Inspection	67244
	27. Buffer Zone	67246
	28. Tank Inspection	67259
	29. Containment	67245
	30. Safe Storage	67261
	31. Freeboard	67257

Comments:

Inspected the modification of dispensers & island @ 401 Kennedy St
 KTW will (1) install new island
 (2) install new dispenser
 (3) install a bravo box
 (4) extend vent line to fence
 (5) install an ^{automatic} tank measuring device.
 Contact John Suttin - KTW, Don - Right Away
 Encountered some diesel contaminated soil under dispenser - allow them to dig out the affected soil ~ 3yds - and sample soil should analyze for TETH. A split Spcl was given to KTW for analysis BC 10/30/91-1610 & I took another BC 10/30/91-1615 to the Env Lab. If sample is <100, I will allow them to continue. ~~on~~ 0.75hr
 11/4/91 - Rec'd results from Darcy - 1645ppm needs to: (1) define lateral & vertical extent
 (2) install min. 1 row downgradient or 3 row if gradient not known
 (3) fill out UAR
 (4) Deposit #432 for County oversight

I.B TRANSPORTER (Title 22)

	32. Applic./Insurance	66428
	33. Comp. Cert./CHP Insp.	66448
	34. Containers	66465
Manifest	35. Vehicles	66465
	36. EPA ID #s	66531
	37. Correct	66541
	38. HW Delivery	66543
	39. Records	66544
Cont'rs	40. Name/ Covers	66545
	41. Recyclables	66800

Rev 6/88

Contact: _____
 Title: _____
 Signature: _____

Inspector: Alban
 Signature: _____

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Right Away Leaky Mix Today's Date 10/30/91
Site Address 401 Kennedy St EPA ID# _____
City Oak Zip 94606 Phone 536-1900

MAX Amt. Stored > 500lbs/55g/200cr? Y N
Hazardous Waste generated per month? _____

- Inspection Categories:**
- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 - II. Business Plans, Acute Hazardous Materials
 - III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

- IA GENERATOR (Title 22)**
- ___ 1. Waste ID * 66471
 - ___ 2. EPA ID 66472
 - ___ 3. > 90 days 66508
 - ___ 4. Label dates 66508
 - ___ 5. Biennial 66493
-
- Manifest**
- ___ 6. Records 66492
 - ___ 7. Correct 66484
 - ___ 8. Copy sent 66492
 - ___ 9. Exception 66484
 - ___ 10. Copies Rec'd 66492
-
- Misc.**
- ___ 11. Treatment 66371
 - ___ 12. On-site Disp. (H.S.&C.) 26189.5
 - ___ 13. Ex Haz. Waste 66570
-
- Prevention**
- ___ 14. Communications 67121
 - ___ 15. Aisle Space 67124
 - ___ 16. Local Authority 67126
 - ___ 17. Maintenance 67120
 - ___ 18. Training 67105
-
- Contn. gency**
- ___ 19. Prepared 67140
 - ___ 20. Name List 67141
 - ___ 21. Copies 67141
 - ___ 22. Emg. Coord. Trng. 67144
-
- Containers, Tanks**
- ___ 23. Condition 67241
 - ___ 24. Compatibility 67242
 - ___ 25. Maintenance 67243
 - ___ 26. Inspection 67244
 - ___ 27. Buffer Zone 67246
 - ___ 28. Tank Inspection 67259
 - ___ 29. Containment 67245
 - ___ 30. Safe Storage 67261
 - ___ 31. Freeboard 67257

Comments:

Inspected the modification of dispensers & island @ 401 Kennedy St.

KTW will (1) install new island
(2) install new dispenser
(3) install a bravo box
(4) extend vent line to fence
(5) install an automatic measuring device.

Contact John Sutfin - KTW, Don - Right Away

Encountered some diesel contaminated soil under dispenser. Had him dig out the affected soil ~ 3yds ~ and sample soil should analyze for TPHd. a split shell was given to KTW for analysis. BC 10/30/91-1610 & I took another BC 10/30/91-1615 to the Env pair. If sample is <100. I will allow them to continue. ~~at~~ 0.75hr

11/4/91 - Rec'd results from Darcy - 1645ppm needs to: (1) define lateral & vertical extent
(2) install mon. 1 NW diameter or 3 in W 4 gradient not known
(3) fill out UAR
(4) deposit #432 for county oversight

- IB TRANSPORTER (Title 22)**
- ___ 32. Applic. Insurance 66428
 - ___ 33. Comp. Cert./CHP Insp. 66448
 - ___ 34. Containers 66465
-
- Manifest**
- ___ 35. Vehicles 66465
 - ___ 36. EPA ID #s 66531
 - ___ 37. Correct 66541
 - ___ 38. HW Delivery 66543
 - ___ 39. Records 66544
-
- Contn's**
- ___ 40. Name/ Covers 66545
 - ___ 41. Recyclables 66800

Rev 6/88

Contact: _____
Title: _____
Signature: _____

Inspector: [Signature]
Signature: _____

Off Kennel VP

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Right Army for Lyllix Today's Date 10/30/91

Site Address 401 Kennedy St EPA ID# _____

City Oak Zip 94606 Phone 536-1900

MAX Amt. Stored > 500lbs/55g/200cr? Y N
Hazardous Waste generated per month? _____

- Inspection Categories:**
- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 - II. Business Plans, Acute Hazardous Materials
 - III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

- I.A GENERATOR (Title 22)**
- ___ 1. Waste ID 66471
 - ___ 2. EPA ID 66472
 - ___ 3. > 90 days 66508
 - ___ 4. Label dates 66508
 - ___ 5. Biennial 66493
-
- Manifest**
- ___ 6. Records 66492
 - ___ 7. Correct 66484
 - ___ 8. Copy sent 66492
 - ___ 9. Exception 66484
 - ___ 10. Copies Rec'd 66492
-
- Misc.**
- ___ 11. Treatment 66371
 - ___ 12. On-site Disp. (H.S.&C.) 26189.5
 - ___ 13. Ex Haz. Waste 66570
-
- Prevention**
- ___ 14. Communications 67121
 - ___ 15. Aisle Space 67124
 - ___ 16. Local Authority 67126
 - ___ 17. Maintenance 67120
 - ___ 18. Training 67105
-
- Confin. Gency**
- ___ 19. Prepared 67140
 - ___ 20. Name List 67141
 - ___ 21. Copies 67141
 - ___ 22. Emg. Coord. Trng. 67144
-
- Containers, Tanks**
- ___ 23. Condition 67241
 - ___ 24. Compatibility 67242
 - ___ 25. Maintenance 67243
 - ___ 26. Inspection 67244
 - ___ 27. Buffer Zone 67246
 - ___ 28. Tank Inspection 67259
 - ___ 29. Containment 67245
 - ___ 30. Safe Storage 67261
 - ___ 31. Freeboard 67257

Comments:

Inspected - the identification of containers & labels @ 401 Kennedy St
 KTW will install new labels
 install new dispenser
 install a drain box
 extract vent line to fence
 (1) install and fix ^{PHYSICAL} measuring device
 install 3 yd buffer - KTW, Don - 2nd Army
 re-arranged some small containers and
 in the dispenser - found them to be out
 of spec. 1 found - 3 yds - 401 Kennedy St
 should work up to TPLD - 1 spill Spill
 as per KTW to analyze 10/13/91-1610
 2. Sample number 30 10/13/91-1615 to the Env
 Public of sample is 400.0 with a 1000
 + 1000 = 0.75 lb
 11/4/91 - Rec'd results from Donny - 1649 ppm
 needs to: (1) replace tank & install spill kit
 (2) install new KTW measurement device
 (3) install vent arm
 (4) fill in CAR
 ... 432 for ...

Rev 6/88

Contact: _____
 Title: _____ Inspector: [Signature]
 Signature: _____ Signature: _____

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL HEALTH LABORATORY

ANALYTICAL REQUEST

Laboratory No. 91-083

Sample Identification One soil sample from Right Away Ready Mix, 401 Kennedy St., Oakland

Analyses Requested by: Barney Chan

Date Collected: 10/30/91 Collected by: Barney Chan

Date Received: 10/31/91 Received by: Newton Leung

Analyses Requested TPH (Diesel)

Background Information to check if there is Diesel Contamination in soil.

ANALYTICAL RESULTS

Parameter	Observation or Result
Sample Identification	BC10/30/91-1615
Lab#	91-083
TPH (Diesel), ppm	1645ppm

Conclusions: The sample contains 1645ppm Diesel.

Date Analyses Completed: 11/1/91 Chemist: Darcy Wong

Approved: D.S.

Distribution: Barney Chan, T. Shirasawa, R. Shahid.

BC/cdb
7/85

white - lab
 yellow - insp. file
 pink - fac. file

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DIVISION OF HAZARDOUS MATERIALS
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621
 (415) 271-4320

LABORATORY SERVICE REQUEST

SITENAME Right Away Roady Mix
 ADDRESS 401 Kennedy St.
 SAMPLE SUBMITTED TO: Env Lab
 DATE SUBMITTED 10/31/91
 SEND INVOICE TO: _____

SEND ANALYTICAL REPORT TO ABOVE OR:
B. Chan

ATTN: _____
 ASAP
 RUSH = ABOUT 1 WEEK TURNAROUND
 ROUTINE = ABOUT 2 WEEKS TURN-AROUND

SAMPLE NO.	DATE/TIME COLLECTED	TYPE OF MATERIAL (WATER, SOIL OR MATRIX)	VOLUME/WEIGHT	FIELD OBSERVATION	ANALYSIS REQUESTED
BC 10/30/91-1615	10/30/91 1615	soil, 6' BGS under dispenser	2oz	Slight odor	TPH diesel

Chain of Custody:

1. Barnes Chan Signature Haz Mat Specialist Title 10/30/91 - 10/31/91 Inclusive Dates
 2. [Signature] Signature CHEMIST Title 10/31/91 Inclusive Dates
 3. _____ Signature _____ Title _____ Inclusive Dates

white - lab
 yellow - insp. file
 pink - fac. file

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DIVISION OF HAZARDOUS MATERIALS
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621
 (415) 271-4320

LABORATORY SERVICE REQUEST

SITENAME Right Away Roady Mix
 ADDRESS 401 Kennedy St.
 SAMPLE SUBMITTED TO: Env Lab
 DATE SUBMITTED 10/31/91
 SEND INVOICE TO: _____

SEND ANALYTICAL REPORT TO ABOVE OR:
B. Chen

ATTN: _____
 ASAP
 RUSH = ABOUT 1 WEEK TURNAROUND
 ROUTINE = ABOUT 2 WEEKS TURN-AROUND

SAMPLE NO.	DATE/TIME COLLECTED	TYPE OF MATERIAL (WATER, SOIL OR MATRIX)	VOLUME/WEIGHT	FIELD OBSERVATION	ANALYSIS REQUESTED
BC 10/30/91-10/15	10/30/91 1015	soil, 6' BGS under dispenser	2oz	slight odor	TPH diesel

Chain of Custody:

1. B. Chen Haz Mat Specialist 10/30/91 - 10/31/91
 Signature Title Inclusive Dates
 2. [Signature] CHIEF 10/31/91
 Signature Title Inclusive Dates
 3. _____
 Signature Title Inclusive Dates

GeoPlexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

ALCO
HAZMAT
November 16, 1993
93 NOV 22 PM 2:26

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

Subject: November, 1993 Quarterly Ground Water Sampling Report

Dear Mr. Henrikson:

As requested and authorized, the attached Ground Water Sampling Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the sampling protocol, recorded ground water elevations, and the analytical test data for the ground water samples collected on November 10, 1993.

Ground water measurements recorded during the sampling efforts indicate that the direction of ground water flow is in an easterly direction which places Monitoring Well P-3 in the down-gradient direction from the former/current fuel dispensing island area (location of previous release). The analytical testing did not detect concentrations of Total Petroleum Hydrocarbons as diesel, Oil & Grease, or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) in the water samples from Monitoring Well P-3. Based on the results of the quarterly ground water data, it is our opinion that the source of the release was abated during the excavation activities and construction of the new dispensing island and that additional site characterization and/or continued monitoring does not appear warranted. It is recommended that the site be considered for closure.

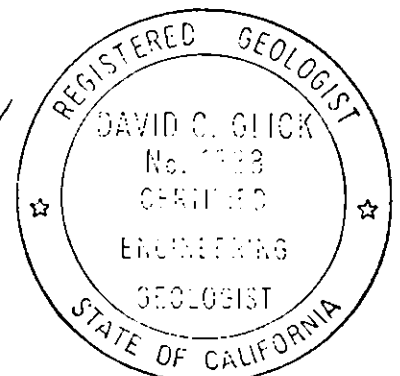
It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to the undersigned. Copies of this report should be forwarded to:

Mr. Thomas Peacock
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Mr. Richard Hiatt
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 500
Oakland, CA 94612

Respectfully submitted,
GeoPlexus, Incorporated

David C. Glick, CEG 1338
Director, Geological and
Environmental Services



GROUND WATER SAMPLING REPORT

for

RIGHT AWAY REDY MIX

401 KENNEDY STREET

OAKLAND, CALIFORNIA

November 16, 1993

Project C92032

GROUND WATER SAMPLING REPORT
for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California as indicated on Figure 1 and is currently occupied by Right Away Redy Mix as indicated on Figure 2.

Three open-standpipe piezometers were installed around the existing underground diesel fuel storage tank and dispensing island (see Figure 3) in December, 1991 by Geo Plexus, Incorporated to obtain soil samples for analytical testing and to establish site-specific ground water flow information. The focus of the investigation was to acquire ground water samples from the "down-gradient" direction of the former/existing dispenser pump area. The top of the piezometer casings were surveyed to establish relative elevations and it was determined that piezometer P-3 was located down gradient of the dispensing pump area (location of previous release). Piezometer P-3 was subsequently developed as a ground water monitoring well (identified as Monitoring Well P-3) and was sampled.

Low concentrations of Total Petroleum Hydrocarbons as diesel (290 ppb) were detected in the ground water in January, 1992. These concentrations reduced to 78 ppb in August, 1992. Low concentrations (210-220 ppb) of non-discreet petroleum hydrocarbons were detected in the ground water in November, 1992 and February, 1993. The quality control report accompanying the November and February data indicated that the constituents detected were non-discreet petroleum hydrocarbons which did not correlate with the chromatographic pattern of the diesel standard used by the analytical testing laboratory. The analytical testing schedule was expanded during the last two quarters to further characterize the non-discreet petroleum hydrocarbons previously detected and reported as Total Petroleum Hydrocarbons as diesel.

This report presents the recorded ground water elevations, the sampling protocol, and results of the analytical testing performed on the ground water samples collected from Monitoring Well P-3 on November 10, 1993.

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

MONITORING WELL SAMPLING

Free product measurements were obtained for the monitoring well at the time of sample acquisition utilizing a teflon bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product, visible sheens, or odors were not observed in the initial bailer water samples or following purging of the well.

Prior to sampling Monitoring Well P-3, five well volumes were purged from each well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized and the water appeared free of suspended solids.

Water samples for analytical testing were obtained through the use of a teflon bailer. The water samples were collected in sterilized glass vials with Teflon lined screw caps. The water samples collected for Volatile Organics were collected in 40 mil. vials acidified with HCL by the analytical laboratory. The water samples collected for Total Petroleum Hydrocarbons as diesel and Oil & Grease were collected in sterilized 1-liter amber jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives (HCl) added to the sample. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

The water obtained from the monitoring well during the purging and sampling activities was contained on-site in 55-gallon drums pending receipt of the laboratory test results.

GRADIENT SURVEY

The elevation of the top of the casing of the monitoring well and other piezometers at the site were established during previous investigations with vertical control of 0.01 foot. Prior to purging the monitoring well, the depth to ground water in each well was measured to the nearest 0.01 foot with an electronic water level meter.

Ground water elevations recorded suggest that the ground water flow across the site is in an easterly direction (see Figure 3) at a gradient of 0.0054 ft/ft with Monitoring Well P-3 in the down-gradient direction from the former/existing dispensing island (focus of investigation).

ANALYTICAL TESTING

The ground water samples were submitted to and tested by McCampbell Analytical, a State of California Certified Testing Laboratory. The samples were tested for Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015, Volatile Aromatics by EPA Method 8020/5030, and Oil & Grease by Method 5520. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

SUMMARY OF FINDINGS

Ground water elevations recorded during the sampling suggest that ground water is at a depth of 10.5-11 feet below the ground surface and flows across the site in an easterly direction at a gradient of 0.0054 ft/ft. The flow direction places Monitoring Well P-3 in a down-gradient direction from the dispenser island.

The analytical testing did not detect reportable quantities of Total Petroleum Hydrocarbons as diesel, Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene), or Oil & Grease. Tables 1 and 2 summarize the current analytical test results along with the previous analytical testing results.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-Benzene</u>	<u>Total Xylenes</u>
1-8-92	290	N.D.	N.D.	N.D.	N.D.
8-17-92	74	N.D.	N.D.	N.D.	N.D.
11-2-92	210*	N.D.	N.D.	N.D.	N.D.
2-5-93	220*	N.D.	N.D.	N.D.	55
5-25-93	ND	N.D.	N.D.	N.D.	N.D.
8-20-93	ND	N.D.	N.D.	N.D.	N.D.
11-10-93	ND	N.D.	N.D.	N.D.	N.D.

Note: Total Petroleum Hydrocarbons as diesel.

* Compounds reported as Total Petroleum Hydrocarbons as diesel reported to be discrete hydrocarbon peaks which did not correlate with diesel standard used by the analytical testing laboratory and not indicative of diesel fuel.

N.D. indicates compounds not detected.

ppb

TABLE 2

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date</u> <u>Sampled</u>	<u>Total Petroleum</u> <u>Hydrocarbons</u>	<u>Oil & Grease</u>
5-25-93	ND	ND
8-20-93	--	ND
11-10-93	--	ND

Note: Total Petroleum Hydrocarbons reported as gasoline
N.D. indicates non-detectable concentrations

The diesel constituents detected in the ground water in January and August, 1992 could be attributed to the diesel contaminated fuel which was encountered, excavated, and removed from the former fuel dispenser island area. However, the constituents reported as Total Petroleum Hydrocarbons as diesel in November, 1992 and February, 1993 (which were reported to be discrete hydrocarbon peaks not indicative of diesel fuel) could be attributed to residual levels of degraded diesel fuel resulting from the site remedial work (excavation and removal of the source).

The expanded testing, which was implemented to further characterize the non-discrete hydrocarbon products, has not identified the presence of these discrete peaks, Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil & Grease, or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) in the ground water during the last two quarters.

Based on the results of the quarterly ground water data, it is our opinion that the source of the release was abated during the excavation activities and construction of the new dispensing island and that additional site characterization and/or continued monitoring does not appear warranted.

It is our recommendation that the site be considered for closure.

LIMITATIONS

We have only observed a small portion of the pertinent subsurface and ground water conditions present at the site. The conclusions and recommendations made herein are based on the assumption that subsurface and ground water conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

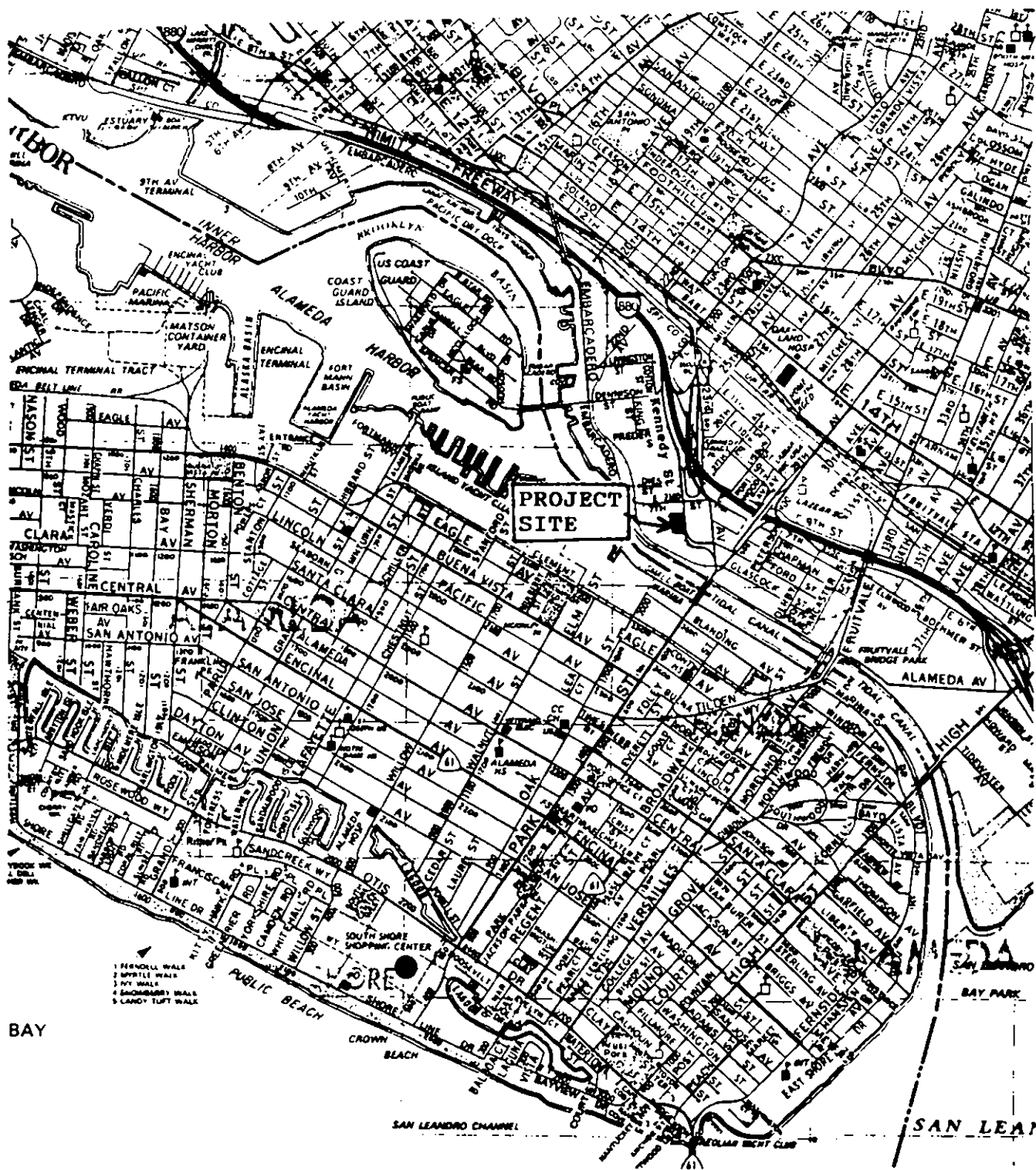
No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

Geo Plexus, Incorporated

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815



- 1 FERRIS WALK
- 2 SPURRIE WALK
- 3 WY WALK
- 4 SMOGHERY WALK
- 5 LANDY TUFT WALK

BAY

CROWN BEACH

SAN LEANDRO CHANNEL

SAN LEAN

RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	NA	JCM
VICINITY MAP		
P91024	Figure 1	

CON AGRA PROPERTY

OPEN STORAGE YARD

WASH AREA

CONCRETE
BATCH PLANT

AGGREGATE STORAGE

CON AGRA
VEHICLE
STORAGE

DRIVEWAY

P-2
P-1
P-3

EXISTING
DIESEL TANK
AND PUMP

DRIVEWAY

OFFICE

WAREHOUSE

EQUIPMENT
STORAGE

SIDEWALK

KENNEDY STREET

RIGHT AWAY REDY MIX

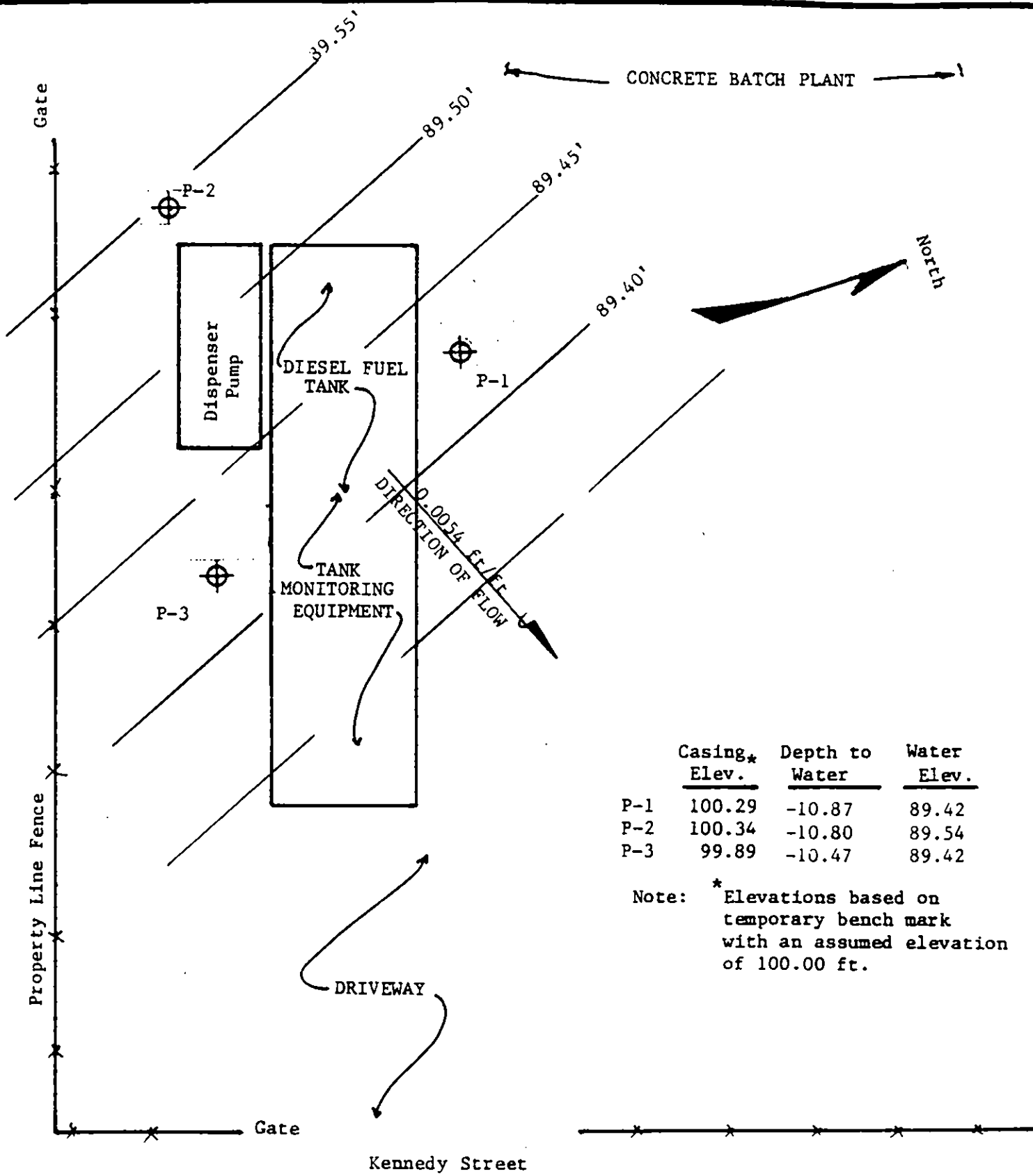
DATE
8/31/93

SCALE
n/a

DRAWN BY
dcg

SITE PLAN

Figure 2



P-1 indicates approximate location of piezometers.

Quarterly Ground Water Sampling Report
Right Away Redy Mix
Oakland, California

November 16, 1993

APPENDIX A
CHAIN-OF-CUSTODY FORM
AND
ANALYTICAL TEST DATA

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

PROJECT NUMBER		PROJECT NAME				Number of Containers	Type of Containers	Type of Analysis						Condition of Samples	Initial	
C92032		Right Away						TPHG	TPHD	BTEX	Oil&Grease					
Send Report Attention of:		Report Due		Verbal Due												
DAVID GLICK		/ /		/ /												
Sample Number	Date	Time	Comp	Grab	Station Location											
MW P3 WS1 A,B	11/10/93	1055		/	MON well P3	2ca	ACIDIFIED 40 ml VOA			✓					good	pit
MW P3 WS2 A,B,C	11/10/93	1055		/	MON well P3	3ca	1LTA AMOR	✓		✓						
[REDACTED]																

IC/PT:
 GOOD CONDITION
 HEAD SPACE ABSENT
 PRESERVATIVE APPROPRIATE
 CONTAINERS
 VOA: O&G: METALS: OTHER:

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 11/11/93 1300	Received by: (Signature) JR Hamilton	Date/Time 11-11-93 1300
Relinquished by: (Signature) JR Hamilton	Date/Time 11-11-93 1410	Received by: (Signature) <i>[Signature]</i>	Date/Time 11-11-93
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Remarks: Purchase Order No.: **STANDARD TURNAROUND**

COMPANY: Geo Plexus, Inc.
 ADDRESS: 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054
 PHONE: (408) 987-0210 FAX: (408) 988-0815

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID:# C92032; Right Away	Date Sampled: 11/10/93
		Date Received: 11/11/93
	Client Contact: David Glick	Date Extracted: 11/13/93
	Client P.O:	Date Analyzed: 11/13/93

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
33068	MWP3/WS1A	W	—	ND	ND	ND	ND	94
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5		
	S	1.0 mg/kg	0.005	0.005	0.005	0.005		

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L
 # 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) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID:# C92032; Right Away	Date Sampled: 11/10/93
		Date Received: 11/11/93
	Client Contact: David Glick	Date Extracted: 11/11/93
	Client P.O.:	Date Analyzed: 11/11/93

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
33069	MWP3/WS2A	W	ND,f	91
Detection Limit unless otherwise stated; ND means Not Detected	W		50 ug/L	
	S		10 mg/kg	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?: light(CL) or heavy(CH) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID: # C92032; Right Away	Date Sampled: 11/10/93
		Date Received: 11/11/93
	Client Contact: David Glick	Date Extracted: 11/12/93
	Client P.O:	Date Analyzed: 11/12/93

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 B/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease
33069	MWP3/WS2A	W	ND
Detection Limit unless otherwise stated; ND means Not Detected	W	5 mg/L	
	S	50 mg/kg	

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

DHS Certification No. 1644

 Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 11/10-11/11/93

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	108.8	108.3	100	108.8	108.3	0.4
Benzene	0	10.3	10.1	10	103.0	101.0	2.0
Toluene	0	10.6	10.3	10	106.0	103.0	2.9
Ethyl Benzene	0	10.2	10	10	102.0	100.0	2.0
Xylenes	0	32.4	32	30	108.0	106.7	1.2
TPH (diesel)	0	128	134	150	86	89	4.0
TRPH (oil & grease)	6500	39200	39500	29600	110	111	0.8

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 11/12-11/13/93

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	115.7	113.1	100	115.7	113.1	2.3
Benzene	0	11	10.8	10	110.0	108.0	1.8
Toluene	0	10.8	10.5	10	108.0	105.0	2.8
Ethyl Benzene	0	10.7	10.5	10	107.0	105.0	1.9
Xylenes	0	33.4	32.4	30	111.3	108.0	3.0
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	0	20400	20300	20000	102	102	0.5

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

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

August 31, 1993

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

2974

Subject: August, 1993 Quarterly Ground Water Sampling Report

Dear Mr. Henrikson:

As requested and authorized, the attached Ground Water Sampling Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the sampling protocol, recorded ground water elevations, and results of the analytical testing performed on the ground water samples collected on August 20, 1993. The report also presents additional responses to issues previously presented by Alameda County Department of Environmental Health personnel.

Ground water measurements recorded during the sampling efforts indicate that the direction of ground water flow is in an easterly direction at a gradient of 0.0043 ft/ft. This places Monitoring Well P-3 in the down-gradient direction from the former/current fuel dispensing island area (location of previous release).

The analytical testing did not detect concentrations of Total Petroleum Hydrocarbons as diesel, Oil & Grease, or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) in the water samples from Monitoring Well P-3. This is the second quarter where the analytical testing did not detect Total Petroleum Hydrocarbons as diesel, Oil and Grease or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene). The previous analytical testing included only Total Petroleum Hydrocarbons as diesel and Volatile Aromatic Compounds.

The previous analytical testing detected low concentrations of Total Petroleum Hydrocarbons as diesel (290 ppb) in January, 1992 and these concentrations reduced to 78 ppb in August 1992. Low concentrations (210-220 ppb) of non-discreet petroleum hydrocarbons were detected in the ground water in November, 1992 and February, 1993; however, the quality control report accompanying the November and February data indicated that the constituents detected were non-discreet petroleum hydrocarbons which did not correlate with the chromatographic pattern of the diesel standard used by the analytical testing laboratory. The analytical testing schedule was expanded in May and August, 1993 to further characterize the non-discreet petroleum hydrocarbons previously detected and reported as Total Petroleum Hydrocarbons as diesel. The expanded testing has not detected these compounds.

93 SEP 14 PM 12:50

The diesel constituents detected in the ground water in January and August, 1992 could be attributed to the diesel contaminated fuel which was encountered, excavated, and removed from the former fuel dispenser island area. The constituents reported as Total Petroleum Hydrocarbons as diesel in November, 1992 and February, 1993 were reported to be discrete hydrocarbon peaks which did not correlate with diesel standard used by the analytical testing laboratory and were not indicative of diesel fuel. The expanded testing which was implemented to further characterize the non-discrete hydrocarbon products (which were reported as diesel) has not identified the presence of Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil & Grease, or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) in the ground water during the last two quarters.

Based on the results of the quarterly ground water data, it is our opinion that the source of the release was abated during the excavation activities and construction of the new dispensing island and that additional site characterization and/or continued monitoring does not appear warranted. It is recommended that the site be considered for closure.

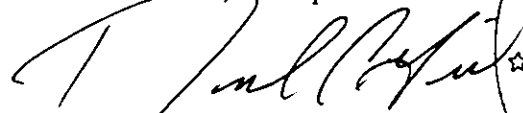
It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to the undersigned. Copies of this report should be forwarded to:

Mr. Thomas Peacock
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

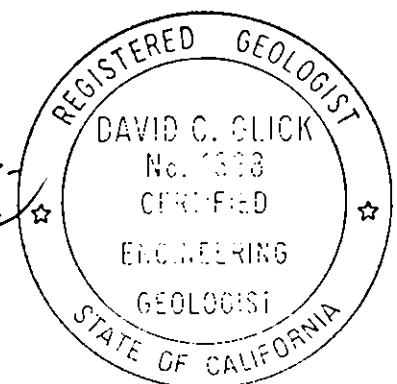
Mr. Richard Hiatt
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 500
Oakland, CA 94612

Respectfully submitted,

Geo Plexus, Incorporated



David C. Glick, CEG 1338
Director, Geological and
Environmental Services



GROUND WATER SAMPLING REPORT

for

RIGHT AWAY REDY MIX

401 KENNEDY STREET

OAKLAND, CALIFORNIA

August 31, 1993

Project C92032

GROUND WATER SAMPLING REPORT
for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California as indicated on Figure 1 and is currently occupied by Right Away Redy Mix as indicated on Figure 2.

Three open-standpipe piezometers were installed around the existing underground diesel fuel storage tank and dispensing island (see Figure 3) in December, 1991 by Geo Plexus, Incorporated to obtain soil samples for analytical testing and to establish site-specific ground water flow information. The focus of the investigation was to acquire ground water samples from the "down-gradient" direction of the former/existing dispenser pump area. The top of the piezometer casings were surveyed to establish relative elevations and it was determined that piezometer P-3 was located down gradient of the dispensing pump area (location of previous release). Piezometer P-3 was subsequently developed as a ground water monitoring well (identified as Monitoring Well P-3) and was sampled.

Low concentrations of Total Petroleum Hydrocarbons as diesel (290 ppb) were detected in the ground water in January, 1992. These concentrations reduced to 78 ppb in August, 1992. Low concentrations (210-220 ppb) of non-discreet petroleum hydrocarbons were detected in the ground water in November, 1992 and February, 1993. The quality control report accompanying the November and February data indicated that the constituents detected were non-discreet petroleum hydrocarbons which did not correlate with the chromatographic pattern of the diesel standard used by the analytical testing laboratory. The analytical testing schedule was expanded during the last two quarters to further characterize the non-discreet petroleum hydrocarbons previously detected and reported as Total Petroleum Hydrocarbons as diesel.

This report presents the recorded ground water elevations, the sampling protocol, and results of the analytical testing performed on the ground water samples collected from Monitoring Well P-3 on August 20, 1993.

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

MONITORING WELL SAMPLING

Free product measurements were obtained for the monitoring well at the time of sample acquisition utilizing a teflon bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product, visible sheens, or odors were not observed in the initial bailer water samples or following purging of the well.

Prior to sampling Monitoring Well P-3, five well volumes were purged from each well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized and the water appeared free of suspended solids.

Water samples for analytical testing were obtained through the use of a teflon bailer. The water samples were collected in sterilized glass vials with Teflon lined screw caps. The water samples collected for Volatile Organics were collected in 40 mil. vials acidified with HCL by the analytical laboratory. The water samples collected for Total Petroleum Hydrocarbons as diesel and Oil & Grease were collected in sterilized 1-liter amber jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives (HCl) added to the sample. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

The water obtained from the monitoring well during the purging and sampling activities was contained on-site in 55-gallon drums pending receipt of the laboratory test results.

GRADIENT SURVEY

The elevation of the top of the casing of the monitoring well and other piezometers at the site were established during previous investigations with vertical control of 0.01 foot. Prior to purging the monitoring well, the depth to ground water in each well was measured to the nearest 0.01 foot with an electronic water level meter.

Ground water elevations recorded suggest that the ground water flow across the site is in an easterly direction (see Figure 3) at a gradient of 0.0043 ft/ft with Monitoring Well P-3 in the down-gradient direction from the former/existing dispensing island (focus of investigation).

ANALYTICAL TESTING

The ground water samples were submitted to and tested by McCampbell Analytical, a State of California Certified Testing Laboratory. The samples were tested for Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015, Volatile Aromatics by EPA Method 8020/5030, and Oil & Grease by Method 5520. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

SUMMARY OF FINDINGS

Ground water elevations recorded during the sampling suggest that ground water is at a depth of 10-10.5 feet below the ground surface and flows across the site in an easterly direction at a gradient of 0.0043 ft/ft. The flow direction places Monitoring Well P-3 in a down-gradient direction from the dispenser island.

The analytical testing did not detect reportable quantities of Total Petroleum Hydrocarbons as diesel, Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene), or Oil & Grease. Tables 1 and 2 summarize the current analytical test results along with the previous analytical testing results.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-Benzene</u>	<u>Total Xylenes</u>
1-8-92	290	N.D.	N.D.	N.D.	N.D.
8-17-92	74	N.D.	N.D.	N.D.	N.D.
11-2-92	210*	N.D.	N.D.	N.D.	N.D.
2-5-93	220*	N.D.	N.D.	N.D.	55
5-25-93	ND	N.D.	N.D.	N.D.	N.D.
8-20-93	ND	N.D.	N.D.	N.D.	N.D.

Note: Total Petroleum Hydrocarbons as diesel.

* Compounds reported as Total Petroleum Hydrocarbons as diesel reported to be discrete hydrocarbon peaks which did not correlate with diesel standard used by the analytical testing laboratory and not indicative of diesel fuel.

N.D. indicates compounds not detected.

TABLE 2

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date</u> <u>Sampled</u>	<u>Total Petroleum</u> <u>Hydrocarbons</u>	<u>Oil & Grease</u>
5-25-93	ND	ND
8-20-93	--	ND

Note: Total Petroleum Hydrocarbons reported as gasoline
N.D. indicates non-detectable concentrations

The diesel constituents detected in the ground water in January and August, 1992 could be attributed to the diesel contaminated fuel which was encountered, excavated, and removed from the former fuel dispenser island area. However, the constituents reported as Total Petroleum Hydrocarbons as diesel in November, 1992 and February, 1993 (which were reported to be discrete hydrocarbon peaks not indicative of diesel fuel) could be attributed to residual levels of degraded diesel fuel resulting from the site remedial work (excavation and removal of the source).

The expanded testing, which was implemented to further characterize the non-discrete hydrocarbon products, has not identified the presence of these discrete peaks, Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil & Grease, or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) in the ground water during the last two quarters.

Based on the results of the quarterly ground water data, it is our opinion that the source of the release was abated during the excavation activities and construction of the new dispensing island and that additional site characterization and/or continued monitoring does not appear warranted.

It is our recommendation that the site be considered for closure.

LIMITATIONS

We have only observed a small portion of the pertinent subsurface and ground water conditions present at the site. The conclusions and recommendations made herein are based on the assumption that subsurface and ground water conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

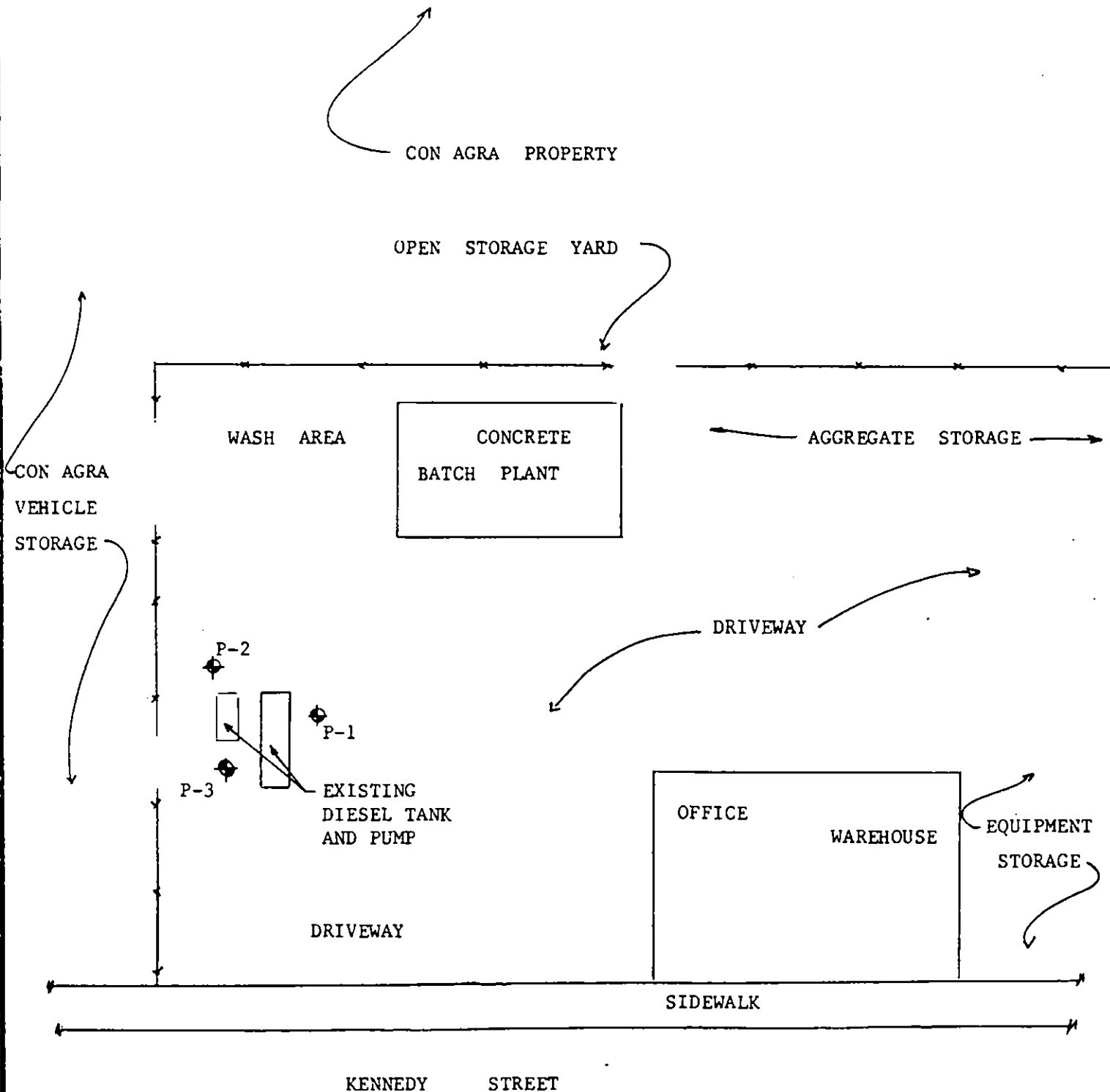
No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

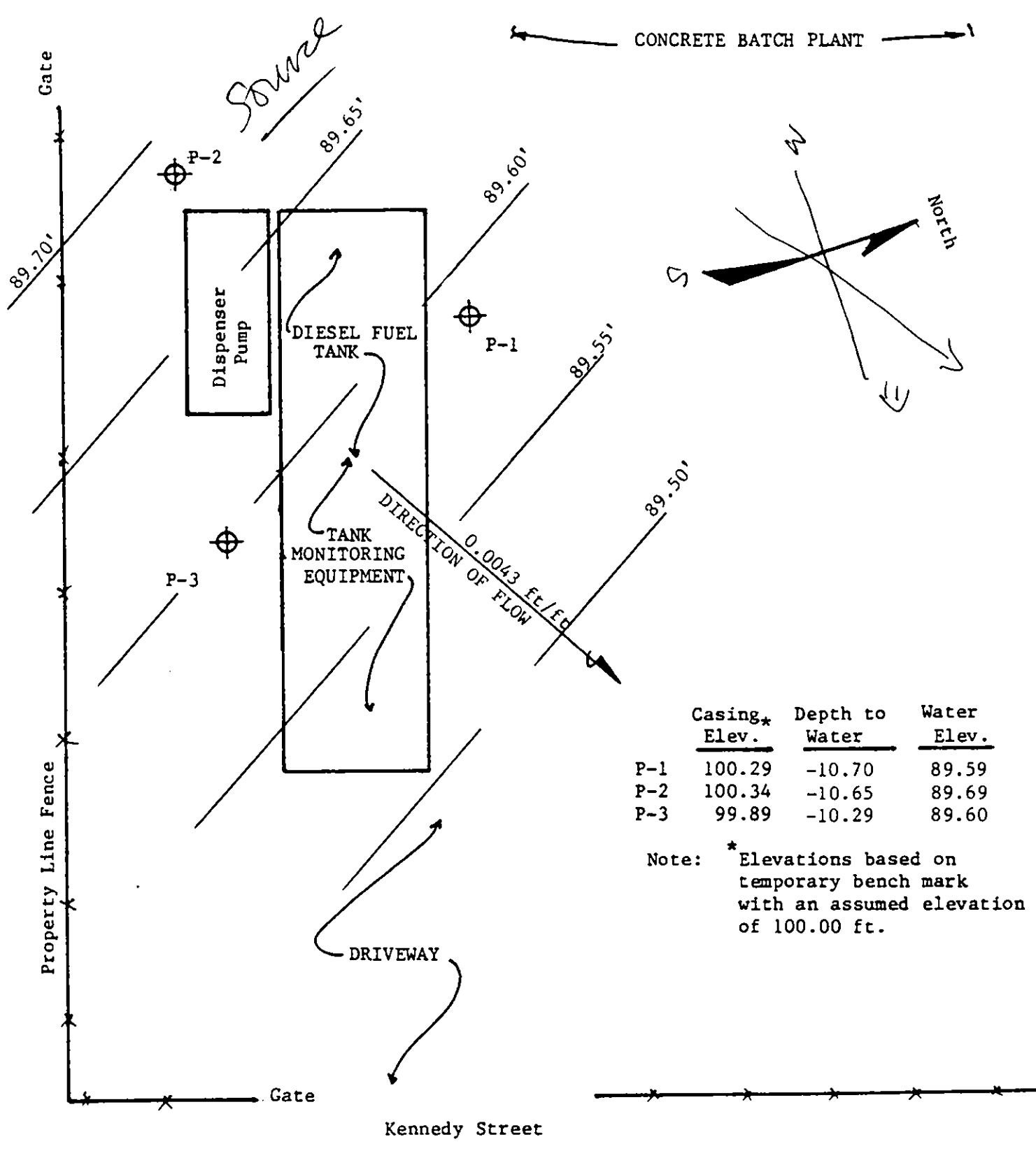
Geo Plexus, Incorporated



RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	NA	JCM
VICINITY MAP		
P91024	Figure 1	



RIGHT AWAY REDY MIX		
DATE 8/31/93	SCALE n/a	DRAWN BY dcg
SITE PLAN		
		Figure 2



P-1 indicates approximate location of piezometers.

RIGHT AWAY REDY MIX		
DATE 8-20-93	SCALE 1"=10'	DRAWN BY DCG/JCM
GRADIENT MAP		
		Figure 3

Quarterly Ground Water Sampling Report
Right Away Redy Mix
Oakland, California

August 31, 1993

APPENDIX A
CHAIN-OF-CUSTODY FORM
AND
ANALYTICAL TEST DATA

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

PROJECT NUMBER		PROJECT NAME				Number of Cntrns	Type of Containers	Type of Analysis						Condition of Samples	Initial
C92032		Rights Away						TPHG	TPHD	BTEX	Oil & Grease				
Send Report Attention of:		Report Due		Verbal Due											
DAVID GLICK		/ /		/ /											
Sample Number	Date	Time	Comp	Grab	Station Location										
P3-WS 1A,B	8/20/93	1240		/	mon wcll P3	2ea	Acid Titro 40 ml VOA		✓						
P3-WS 2A,B,C	8/20/93	1240		/	mon wcll P3	3ea	1 LTR AMA'R	✓	✓						
VOAS O & G METALS OTHER															
ICE/T* GOOD CONDITION		PRESERVATIVE APPROPRIATE		CONTAINERS											
HEAD SPACE ABSENT															
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		Date/Time		Remarks: Purchase Order No.: 93.3046 STANDARD TURNAROUND									
<i>Paul Meyer</i>	8/24/93 1850	<i>R Hamilton</i>		8/24/93 1850											
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		Date/Time											
<i>R Hamilton</i>	8/24/93 20:00	<i>R Hamilton</i>		8/24/93 20:00		COMPANY: Geo Plexus, Inc. ADDRESS: 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 PHONE : (408)987-0210 FAX : (408)988-0315									
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		Date/Time											

31912
31913

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID: # C92032; Right Away	Date Sampled: 08/20/93
		Date Received: 08/24/93
	Client Contact: David Glick	Date Extracted: 08/26/93
	Client P.O.: 93.3046	Date Analyzed: 08/26/93

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
31912	P3-WS 1A	W	—	ND	ND	ND	ND	105
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

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) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID: # C92032; Right Away	Date Sampled: 08/20/93
		Date Received: 08/24/93
	Client Contact: David Glick	Date Extracted: 08/26/93
	Client P.O: 93.3046	Date Analyzed: 08/27/93

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
31913	P3-WS 2B	W	ND,e,f	95
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L		
	S	10 mg/kg		

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(CL) or heavy(CH) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(aged diesel?; oil/); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

GEO Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, CA 95054	Client Project ID: # C92032; Right Away	Date Sampled: 08/20/93
		Date Received: 08/24/93
	Client Contact: David Glick	Date Extracted: 08/27/93
	Client P.O: 93.3046	Date Analyzed: 08/27/93

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 B/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease
31913	P3-WS 2B	W	ND
Detection Limit unless otherwise stated; ND means Not Detected	W	5 mg/L	
	S	50 mg/kg	

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

DHS Certification No. 1644

 Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 08/26-08/27/93

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	107.1	102.8	101	106	102	4.1
Benzene	0.0	10.5	10.4	10	105	104	1.0
Toluene	0.0	10.8	10.4	10	108	104	3.8
Ethyl Benzene	0.0	10.1	10.3	10	101	103	2.0
Xylenes	0.0	32.4	31.6	30	108	105	2.5
TPH (diesel)	0	124	128	150	83	85	3.5
TRPH (oil & grease)	0	17400	18500	20000	87	93	6.1

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

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

June 10, 1993

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

STID 2974

Subject: May, 1993 Quarterly Ground Water Sampling Report

Dear Mr. Henrikson:

As requested and authorized, the attached Ground Water Sampling Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the sampling protocol, recorded ground water elevations, and results of the analytical testing performed on the ground water samples collected on May 25, 1993. The report also presents a response to issues presented by Mr. Thomas Peacock (Alameda County Department of Environmental Health).

In accordance with the request/directive from Mr. Thomas Peacock to further characterize the hydrocarbon products detected in the latest two sample events, the ground water samples were analyzed for Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil & Grease and Volatile Aromatic Compounds.

Ground water measurements recorded during the sampling efforts indicate that the direction of ground water flow is in an easterly direction at a gradient of 0.0016 ft/ft. This places Monitoring Wells P-1 and P-3 in a down- to cross-gradient direction from the dispensing island area (which was the "initial" source and point of concern). The existing double-walled underground storage tank has not been raised as an issue to date and has not been the focus of investigation effort.

In summary, the extended analytical testing of the water samples obtained from Monitoring Well P-3 did not contain detectable concentrations of Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil & Grease and Volatile Aromatic Compounds. As stated during previous correspondence, the compounds identified as Total Petroleum Hydrocarbons as diesel during the two previous testing episodes appear to be unrelated to the project site.

Based on the results of the initial and quarterly ground water data, additional site characterization does not appear warranted at this time and is not recommended. The ground water monitoring wells are scheduled to be sampled again in August, 1993 (fourth quarterly event) in accordance with the direction for quarterly monitoring from the Alameda County Health Care Services, Department of Environmental Health.

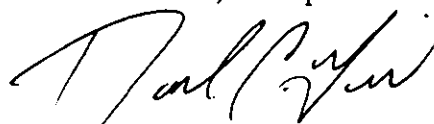
It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to the undersigned. Copies of this report should be forwarded to:

Mr. Thomas Peacock
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

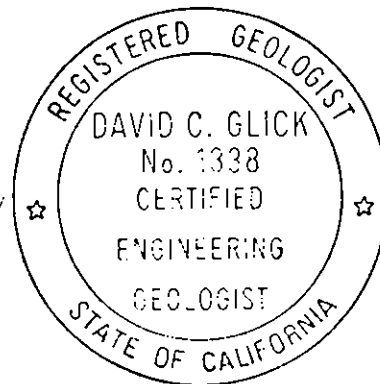
Mr. Richard Hiatt
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 500
Oakland, CA 94612

Respectfully submitted,

Geo Plexus, Incorporated



David C. Glick, CEG 1338
Director, Geological and
Environmental Services



GROUND WATER SAMPLING REPORT

for

RIGHT AWAY REDY MIX

401 KENNEDY STREET

OAKLAND, CALIFORNIA

June 10, 1993

Project C92032

GROUND WATER SAMPLING REPORT

for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California as indicated on Figure 1. The site is currently occupied by Right Away Redy Mix.

Three open-standpipe piezometers were installed around the existing underground diesel fuel storage tank and dispensing island in December, 1991 by Geo Plexus, Incorporated to obtain soil samples for analytical testing and to establish site-specific ground water flow information. The focus of the investigation was to acquire ground water samples from the "down-gradient" direction of the former/existing dispenser pump area. The top of the piezometer casings were surveyed to establish relative elevations and it was determined that piezometer P-3 was located down gradient of the dispensing pump area (location of previous release). Piezometer P-3 was subsequently developed as a ground water monitoring well (identified as Monitoring Well P-3) and was sampled.

This report is the third scheduled quarterly monitoring report and presents the recorded ground water elevations, the sampling protocol, and results of the analytical testing performed on the ground water samples collected from Monitoring Well P-3 on May 25, 1993.

MONITORING WELL SAMPLING

Free product measurements were obtained for the monitoring well at the time of sample acquisition utilizing a teflon bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product or visible sheens were not observed in the initial bailer water samples or following purging of the well.

Prior to sampling Monitoring Well P-3, five well volumes were purged from each well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized and the water appeared free of suspended solids.

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

Water samples for analytical testing were obtained through the use of a teflon bailer and were collected in sterilized glass 40 ml. vials and 1 ltr. jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives (HCl) added to the sample. A travel blank (identified as MW-A) was obtained from the analytical testing laboratory, transported to the field with the sample vials, and was submitted along with other samples for analysis. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

The water obtained from the monitoring well during the purging and sampling activities was contained on-site in 55-gallon drums pending receipt of the laboratory test results.

GRADIENT SURVEY

The elevation of the top of the casing of the monitoring well and other piezometers at the site were established during previous investigations with vertical control of 0.01 foot. Prior to purging the monitoring well, the depth to ground water in each well was measured to the nearest 0.01 foot with an electronic water level meter.

Ground water elevations recorded suggest that the ground water flow across the site is in an easterly direction (see Figure 2) at a gradient of 0.0016 ft/ft with Monitoring Wells P-1 and P-3 in a down- to cross-gradient direction from the dispensing island (focus of investigation).

ANALYTICAL TESTING

The ground water samples were submitted to and tested by McCampbell Analytical, a State of California Certified Testing Laboratory. The samples were tested for Total Total Petroleum Hydrocarbons as gasoline by Method GCFID 5030/8015, Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015, Volatile Aromatics by EPA Method 8020/5030, and Oil & Grease by Method 5520. The travel blank was submitted for analysis for Volatile Aromatics by EPA Method 8020. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

SUMMARY OF FINDINGS

Ground water elevations recorded during the sampling suggest that ground water is at a depth of 10-10.5 feet below the ground surface and flows across the site in an easterly direction at a gradient of 0.0016 ft/ft. The flow direction places Monitoring Wells P-1 and P-3 in a down- to cross-gradient direction from the dispenser island.

The analytical testing did not detect reportable quantities of Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene), or Oil & Grease. Tables 1 and 2 summarize the current analytical test results along with the previous analytical testing results.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-Benzene</u>	<u>Total Xylenes</u>
<u>Monitoring Well P-3</u>					
1-8-92	290	N.D.	N.D.	N.D.	N.D.
8-17-92	74	N.D.	N.D.	N.D.	N.D.
11-2-92	210	N.D.	N.D.	N.D.	N.D.
2-5-93	220	N.D.	N.D.	N.D.	55
5-25-93	ND	N.D.	N.D.	N.D.	N.D.

Note: Total Petroleum Hydrocarbons reported as diesel
N.D. indicates non-detectable concentrations

TABLE 2

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Oil & Grease</u>
<u>Monitoring Well P-3</u>		
5-25-93	ND	ND

Note: Total Petroleum Hydrocarbons reported as gasoline
N.D. indicates non-detectable concentrations

Based on the extended analytical testing performed, the hydrocarbon products previously detected are not consistent with the chromatographic patterns of Total Petroleum Hydrocarbons as gasoline Total Petroleum Hydrocarbons as diesel or Oil & Grease. It is noted that the analytical report indicates the presence of isolated hydrocarbon peaks not associated with the compounds analyzed.

Based on the results of the initial and quarterly ground water data, additional site characterization does not appear warranted at this time and is not recommended. The ground water monitoring wells are scheduled to be sampled again in August, 1993 (fourth quarterly event) in accordance with the direction for quarterly monitoring from the Alameda County Health Care Services, Department of Environmental Health.

LIMITATIONS

We have only observed a small portion of the pertinent subsurface and ground water conditions present at the site. The conclusions and recommendations made herein are based on the assumption that subsurface and ground water conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

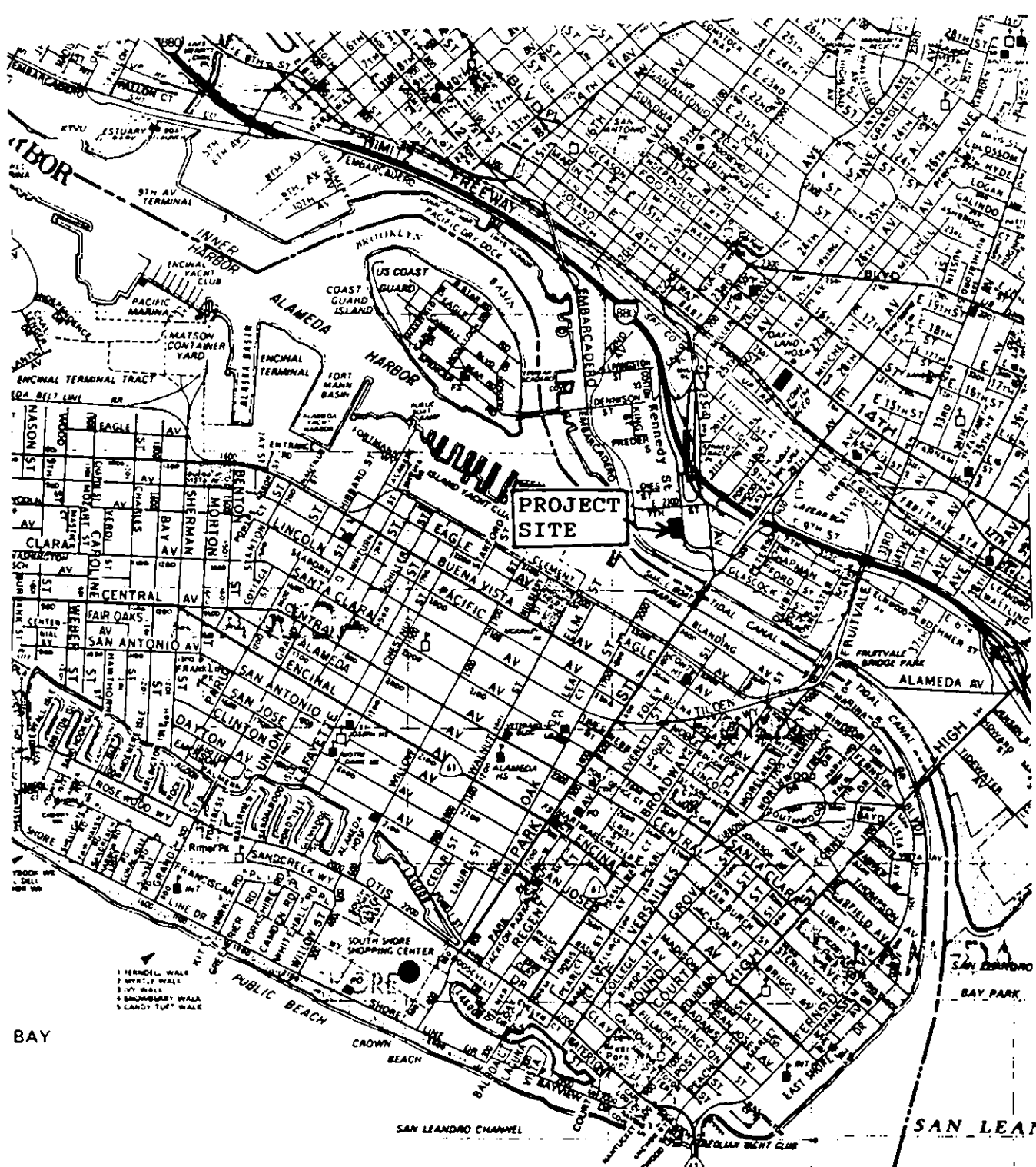
No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

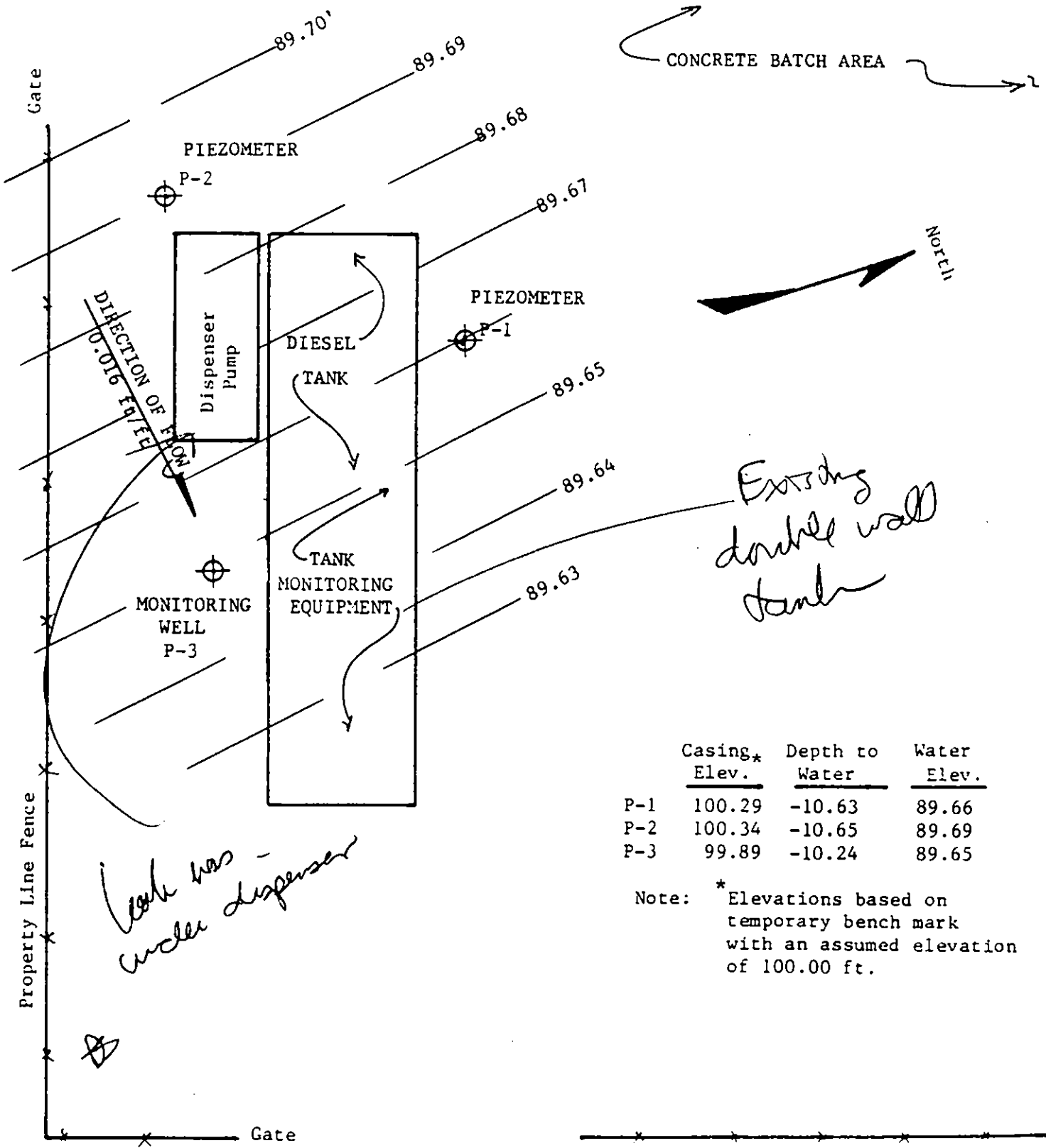
Geo Plexus, Incorporated

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815



RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	NA	JCM
VICINITY MAP		
P91024	Figure 1	



Leak was under dispenser

Existing double wall tank

	Casing* Elev.	Depth to Water	Water Elev.
P-1	100.29	-10.63	89.66
P-2	100.34	-10.65	89.69
P-3	99.89	-10.24	89.65

Note: * Elevations based on temporary bench mark with an assumed elevation of 100.00 ft.

P-1 indicates approximate location of piezometers.

RIGHT AWAY REDY MIX		
DATE 5-25-93	SCALE 1"=10'	DRAWN BY DCG/JCM
GRADIENT MAP		
		Figure 2

Quarterly Ground Water Sampling Report
Right Away Redy Mix
Oakland, California

June 10, 1993

APPENDIX A
CHAIN-OF-CUSTODY FORM
AND
ANALYTICAL TEST DATA

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

PROJECT NUMBER		PROJECT NAME					Number of Containers	Type of Containers	Type of Analysis						Condition of Samples	Initial		
C92032		Right Away Road Mix							TPHG	TPHD	BTEX	Oil & Grease						
Send Report Attention of:			Report Due		Verbal Due		Sample Number	Date	Time	Comp	Grab	Station Location						
DAVID GLICK			1 1		1 1													
MWA -	WS1A,B	5/25/93	1230		1	MON WELL A	2ea	ACIDIFIED 40 ml VOA										30671
MW1 -	WS1A,B	5/25/93	1345		1	MON WELL 1	2ea	ACIDIFIED 40 ml VOA										30672
MW1 -	WS2A,B,C	5/25/93	1345		1	MON WELL 1	3ea	1 LTR AMBER										30673
ICE/T° <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> PRESERVATIVE <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> APPROPRIATE <input checked="" type="checkbox"/>																		
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks:										
<i>[Signature]</i>		5/27/93 11:28		<i>[Signature]</i>		5/17/93 16:38		Purchase Order No.: 93-3031										
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		STANDARD TURNAROUND										
<i>[Signature]</i>		5/27/93 12:07		<i>[Signature]</i>		5-27-93 12:47												
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		COMPANY: Geo Plexus, Inc. ADDRESS: 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 PHONE: (408) 987-0210 FAX: (408) 988-0815										

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

GEO Plexus, Inc. 1900 Wyatt Drive, #1 Santa Clara, CA 95054	Client Project ID: #C92032; Right Away Redy Mix	Date Sampled: 05/25/93
	Client Contact: David Glick	Date Received: 05/27/93
	Client P.O.: 93-3031	Date Analyzed: 05/28/93
		Date Extracted:

Low Boiling Point (C6-C12) TPH* as Gasoline and BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(G) ⁺	Benzene	Toluene	Ethyl Benzene	Xylenes	% Rec. Surrogate
30671	MWA-WS1A	W	ND	ND	ND	ND	ND	113
30672	MW1-WS1A	W	ND,f	ND	ND	ND	ND	103
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	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 gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

 Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

GEO Plexus, Inc. 1900 Wyatt Drive, #1 Santa Clara, CA 95054	Client Project ID: #C92032; Right Away Redy Mix	Date Sampled: 05/25/93
	Client Contact: David Glick	Date Received: 05/27/93
	Client P.O.: 93-3031	Date Extracted: 05/27/93
		Date Analyzed: 05/27/93

Medium Boiling Point (C10-C23) TPH* as Diesel

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(D) ⁺
30673	MW1-WS2A	W	ND,e
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

* 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 diesel; b) diesel range compounds predominate; no recognizable pattern; c) diesel range compounds together with gasoline range compounds; d) gasoline range compounds predominate; e) medium boiling point pattern that does not match diesel(oil-range or aged diesel?); f) one to a few isolated peaks present; g) oil range compounds predominate.


 Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

GEO Plexus, Inc. 1900 Wyatt Drive, #1 Santa Clara, CA 95054	Client Project ID: #C92032; Right Away Redy Mix	Date Sampled: 05/25/93
	Client Contact: David Glick	Date Received: 05/27/93
	Client P.O: 93-3031	Date Extracted: 06/02/93
		Date Analyzed: 06/03/93

Total Recoverable Petroleum Hydrocarbons as Oil & Grease (with Silica Gel Clean-up) *
 Standard Methods 5520 E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	TRPH
30673	MW1-WS2A	W	ND
Detection Limit unless otherwise stated; ND means Not Detected	W	5 mg/L	
	S	50 mg/kg	

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

 Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/24/-05/28/93

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	94.9	90.8	101	94	90	4.4
Benzene	0.0	10.8	10.5	10	108	105	2.8
Toluene	0.0	11.3	10.8	10	113	108	4.5
Ethyl Benzene	0.0	10.9	10.5	10	109	105	3.7
Xylenes	0.0	32.4	31.1	30	108	104	4.1
TPH (diesel)	0	134	138	150	89	92	3.2
TRPH (oil & grease)	0	26	27	20.8	126	130	2.6

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/03/92

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	97.0	93.9	101	96	93	3.3
Benzene	0.0	10.6	10.4	10	106	104	1.9
Toluene	0.0	11.1	10.7	10	111	107	3.7
Ethyl Benzene	0.0	10.5	10.5	10	105	105	0.0
Xylenes	0.0	31.0	31.0	30	103	103	0.0
TPH (diesel)	0	129	139	150	86	93	7.4
TRPH (oil & grease)	0	210	207	200	105	104	1.4

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

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

GeoPlexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

March 15, 1993

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

Subject: February, 1993 Quarterly Ground Water Sampling Report

Dear Mr. Henrikson:

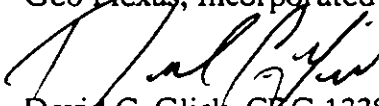
As requested and authorized, the attached Ground Water Sampling Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the sampling protocol, recorded ground water elevations, and results of the analytical testing performed on the ground water samples collected on February 5, 1993.

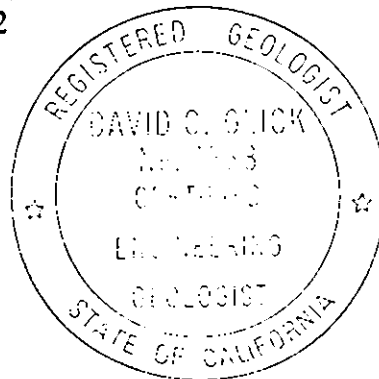
In summary, the water samples obtained from Monitoring Well P-3 continue to contain detectable concentrations (220 ppb) of hydrocarbon products which were not consistent with the chromatographic patterns of Total Petroleum Hydrocarbons as diesel. Total Xylenes were detected at 55 ppb. Benzene, Toluene, and Ethyl Benzene were not detected. In accordance with the request/directive from Mr. Barney Chan (Alameda County Department of Environmental Health), it is recommended that additional ground water samples be collected during the next sample event and analyzed for Total Petroleum Hydrocarbons as Oil & Grease to characterize the hydrocarbon products detected in the latest two sample events.

It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to the undersigned. Copies of this report should be forwarded to:

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Mr. R. Hiatt
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 500
Oakland, CA 94612

Respectfully submitted,
GeoPlexus, Incorporated

David C. Glick, CEG 1338
Director, Geological and
Environmental Services



GROUND WATER SAMPLING REPORT

for

RIGHT AWAY REDY MIX

401 KENNEDY STREET

OAKLAND, CALIFORNIA

March 15, 1993

Project C92032

GROUND WATER SAMPLING REPORT

for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California as indicated on Figure 1. The site is currently occupied by Right Away Redy Mix.

Three open-standpipe piezometers were installed around the existing underground diesel fuel storage tank and dispensing island in December, 1991 by Geo Plexus, Incorporated to obtain soil samples for analytical testing and to establish site-specific ground water flow information. The top of the piezometer casings were surveyed to establish relative elevations and it was determined that piezometer P-3 was located down gradient of the dispensing pump area (location of previous release). Piezometer P-3 was subsequently developed as a ground water monitoring well (identified as Monitoring Well P-3) and was sampled.

This report is the second scheduled quarterly monitoring report and presents the recorded ground water elevations, the sampling protocol, and results of the analytical testing performed on the ground water samples collected from Monitoring Well P-3 on March 5, 1993. As noted on the chain-of-custody the sampling technician mis-indicated the sampling date as January 5, 1993 in stead of February 5, 1993. The sample dates were corrected at the analytical laboratory.

MONITORING WELL SAMPLING

Free product measurements were obtained for the monitoring well at the time of sample acquisition utilizing a teflon bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product or visible sheens were not observed in the initial bailer water samples or following purging of the well.

Prior to sampling Monitoring Well P-3, four to six well volumes were purged from each well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized and the water appeared free of suspended solids.

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

Water samples for analytical testing were obtained through the use of a teflon bailer and were collected in sterilized glass 40 ml. vials and 1 ltr. jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives (HCl) added to the sample. A travel blank (identified as MW-A) was obtained from the analytical testing laboratory, transported to the field with the sample vials, and was submitted along with other samples for analysis. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

The water obtained from the monitoring well during the purging and sampling activities was contained on-site in 55-gallon drums pending receipt of the laboratory test results.

GRADIENT SURVEY

The elevation of the top of the casing of the monitoring well and other piezometers at the site were established during previous investigations with vertical control of 0.01 foot. Prior to purging the monitoring well, the depth to ground water in each well was measured to the nearest 0.01 foot with an electronic water level meter.

Ground water elevations recorded suggest that the ground water flow across the site is in a northeast direction (see Figure 2) at a gradient of 0.0096 ft/ft with Monitoring Wells P-1 and P-3 in a down- to cross-gradient direction from the dispensing island and existing underground diesel fuel storage tank.

ANALYTICAL TESTING

The ground water samples were submitted to and tested by Anamatrix Laboratories located in San Jose, California. The samples were tested for Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015 and Volatile Aromatics by EPA Method 8020/5030. The travel blank was submitted for analysis for Volatile Aromatics by EPA Method 8020. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

SUMMARY OF FINDINGS

Ground water elevations recorded during the sampling suggest that ground water is at a depth of 9-10.5 feet below the ground surface and flows across the site in a northeast direction at a gradient of 0.0096 ft/ft. The flow direction places Monitoring Wells P-1 and P-3 in a down- to cross-gradient direction from the dispenser island and existing underground diesel fuel storage tank.

The analytical testing detected reportable quantities of Total Petroleum Hydrocarbons products at a concentration of 220 ppb in the water sample obtained from Monitoring Well P-3 which were not consistent with the chromatographic patterns of Total Petroleum Hydrocarbons as diesel. It is noted that the analytical report states that the concentration reported as diesel is primarily due to the presence of discrete hydrocarbon peaks not indicative of diesel.

Total Xylenes were detected at 55 ppb in the water sample obtained from Monitoring Well P-3. Benzene, Toluene, and Ethylbenzene were not detected. Table 1 summarizes the current analytical test results along with the previous analytical testing results.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date</u> <u>Sampled</u>	<u>Total Petroleum</u> <u>Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-</u> <u>Benzene</u>	<u>Total</u> <u>Xylenes</u>
<u>Monitoring Well P-3</u>					
1-8-92	290	N.D.	N.D.	N.D.	N.D.
8-17-92	74	N.D.	N.D.	N.D.	N.D.
11-2-92	210	N.D.	N.D.	N.D.	N.D.
2-5-93	220	N.D.	N.D.	N.D.	55

Note: Total Petroleum Hydrocarbons reported as diesel
N.D. indicates non-detectable concentrations

*BTEX
needed
7-15-93
TP*

The ground water monitoring wells located at the project site are scheduled to be sampled again in May, 1993 in accordance with the direction for quarterly monitoring from the Alameda County Health Care Services, Department of Environmental Health.

In accordance with the request/directive from Mr. Barney Chan (Alameda County Department of Environmental Health), it is recommended that additional ground water samples be collected during the next sample event and analyzed for Total Petroleum Hydrocarbons as Oil & Grease to characterize the hydrocarbon products detected in the latest two sample events.

LIMITATIONS

We have only observed a small portion of the pertinent subsurface and ground water conditions present at the site. The conclusions and recommendations made herein are based on the assumption that subsurface and ground water conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

Geo Plexus, Incorporated

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

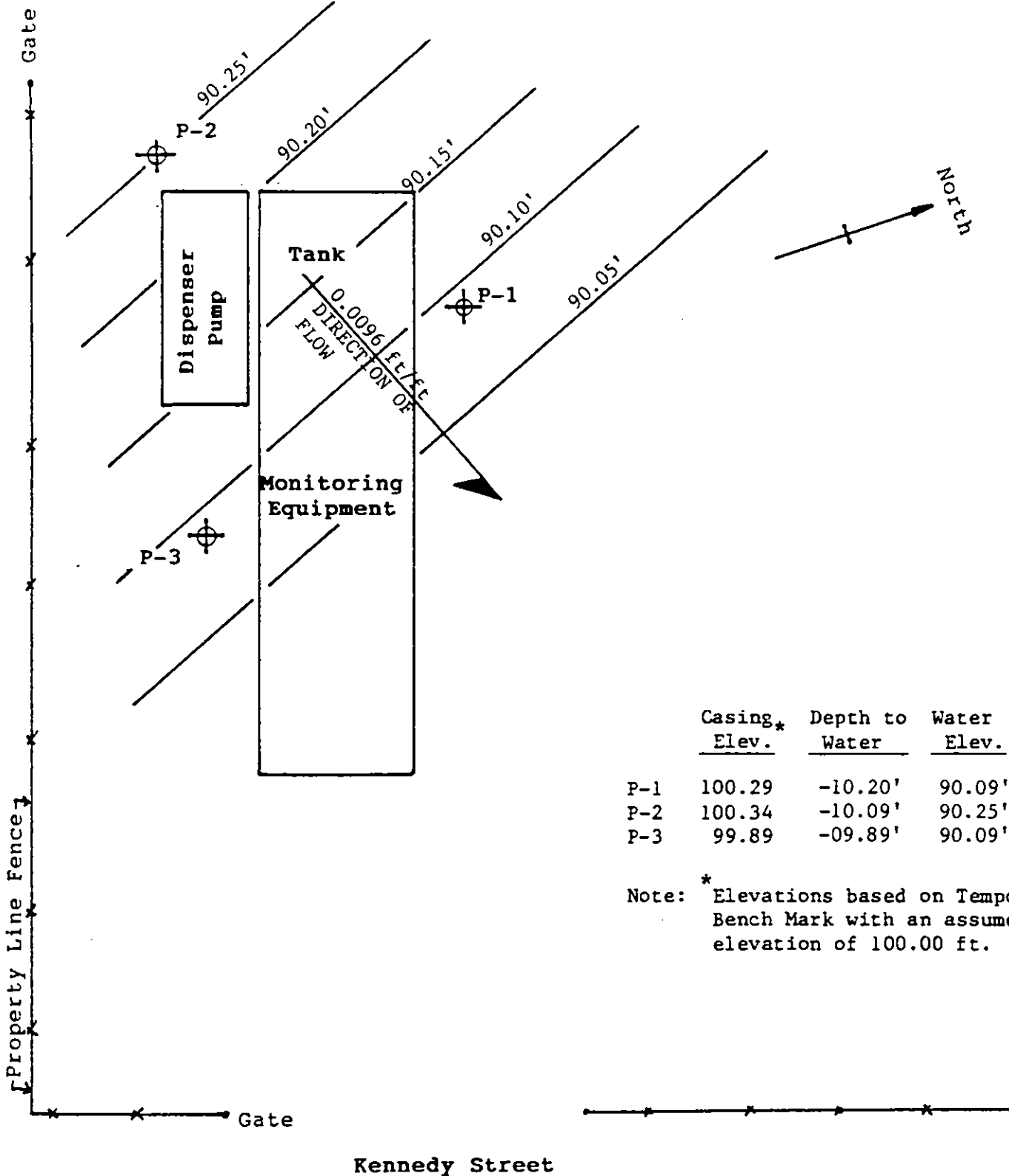


BAY

- 1 TERRAZZO WALL
- 2 SPURR WALL
- 3 TYPY WALL
- 4 SANDSBAY WALL
- 5 LANDY TUFT WALL

GeoPlexus, Inc.

RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	NA	JCM
VICINITY MAP		
P91024	Figure 1	



	Casing* Elev.	Depth to Water	Water Elev.
P-1	100.29	-10.20'	90.09'
P-2	100.34	-10.09'	90.25'
P-3	99.89	-09.89'	90.09'

Note: * Elevations based on Temporary Bench Mark with an assumed elevation of 100.00 ft.

⊕ P-1 indicates approximate location of piezometers

RIGHT AWAY REDY MIX		
DATE 2/5/93	SCALE 1"=10'	DRAWN BY DCG/JCM
SITE PLAN		
		Figure 2

Quarterly Ground Water Sampling Report
Right Away Redy Mix
Oakland, California

March 15, 1993

APPENDIX A
CHAIN-OF-CUSTODY FORM
AND
ANALYTICAL TEST DATA

PROJECT NUMBER		PROJECT NAME				Number of Cntrns	Type of Containers	Type of Analysis					Condition of Samples	Initial
C92032		Right AWAY Redy mix						TPHG	TPHD	BTEX	Oil&Grease			
Send Report Attention of:			Report Due	Verbal Due										
David Glick			2/22/93	1 1										
Sample Number	Date	Time	Coop	Grab	Station Location									
① Trip A,B BLANKS	LAB	LAB		1	LAB	2 ea	40 ml VOA			1				
② P-3 WS-1 A,B	2/5/93	1235		1	Mon Well P-3	2 ea	Acidified 40 ml VOA			1				
③ P-3 WS 2 A,B	2/5/93	1238		1	Mon Well P-3	2 ea	1 LTR			1				
2/8/93 Per David Glick sampled 2/5/93						CV								
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Remarks: Purchase Order No.: 93-3010 STANDARD Turnaround COMPANY: Geo Plexus, Inc. ADDRESS: 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 PHONE: (408)987-0210 FAX: (408)988-0815								
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time									
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time									

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID C. GLICK
GEOPLEXUS, INC.
1900 WYATT DRIVE, SUITE #1
SANTA CLARA, CA 95054

Workorder # : 9302071
Date Received : 02/05/93
Project ID : C92032
Purchase Order: 93-3010
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9302071- 1	TB A-B	WATER	01/07/93	BTEX
9302071- 2	P-3 WS-1	WATER	02/05/93	BTEX
9302071- 3	P-3 WS-2	WATER	02/05/93	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID C. GLICK
GEOPLEXUS, INC.
1900 WYATT DRIVE, SUITE #1
SANTA CLARA, CA 95054

Workorder # : 9302071
Date Received : 02/05/93
Project ID : C92032
Purchase Order: 93-3010
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as diesel for sample P-3 WS-2 is due to the presence of a combination of discrete hydrocarbon peaks not indicative of diesel and a heavier petroleum product, possibly motor oil.

Cheryl Balmer 2/22/93
Department Supervisor Date

Reagle Dawson 2/22/93
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9302071
Matrix : WATER
Date Sampled : 01/07 & 02/05/93

Project Number : C92032
Date Released : 02/19/93

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# TB A-B	Sample I.D.# P-3 WS-1	Sample I.D.# BF1101E3
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Total Xylenes	0.5	ND	55	ND
* Surrogate Recovery		105%	93%	119%
Instrument I.D.		HP4	HP4	HP4
Date Analyzed		02/11/93	02/11/93	02/11/93
RLMF		1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Farnsworth 2/22/93
Analyst Date

Charles Balmer 2/19/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anamatrix W.O.: 9302071
Matrix : WATER
Date Sampled : 02/05/93
Date Extracted: 02/09/93

Project Number : C92032
Date Released : 02/19/93
Instrument I.D.: HP23

Anamatrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9302071-03	P-3 WS-2	02/11/93	50	220
DWBL020993	METHOD BLANK	02/10/93	50	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 2/22/93
Analyst Date

Cheryl Balma 2/19/93
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
 EPA METHOD 3510 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : WATER
 Date Sampled : N/A
 Date Extracted: 02/09/93
 Date Analyzed : 02/10/93

Anamatrix I.D. : LCSW0210
 Analyst :
 Supervisor :
 Date Released : 02/18/93
 Instrument I.D.: HP23

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCS REC (ug/L)	% REC LCS	RPD	% REC LIMITS
DIESEL	1250	910	73%	925	74%	2%	47-130

*Quality control established by Anamatrix, Inc.

GeoPlexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

November 20, 1992

92 052 10 Project: C92032

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

STIP 2974

Subject: November, 1992 Quarterly Ground Water Sampling Report for
Right Away Redy Mix, 401 Kennedy Street, Oakland, CA

Dear Mr. Henrikson:

As requested and authorized, the attached Ground Water Sampling Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the sampling protocol, recorded ground water elevations, and results of the analytical testing performed on the ground water samples collected on November 2, 1992.


In summary, the water samples obtained from Monitoring Well P-3 contained detectable concentrations of Total Petroleum Hydrocarbons as diesel but did not contain detectable concentrations of Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylenes).

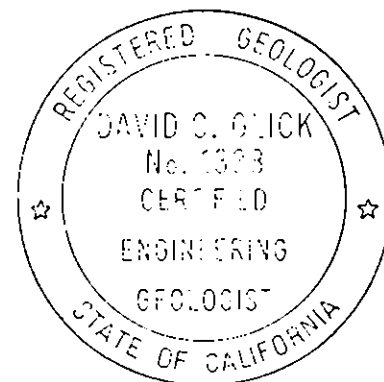
It has been a pleasure to be of service to you on this project. The next scheduled sampling event is in February, 1993. Questions or comments regarding the attached report should be addressed to the undersigned. Copies of this report should be forwarded to:

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Mr. R. Hiett
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 500
Oakland, CA 94612

Respectfully submitted,
Geo Plexus, Incorporated


David C. Glick, CEG 1338
Director, Geological and
Environmental Services



Enclosure:

Ground Water Sampling Report

GROUND WATER SAMPLING REPORT

for

RIGHT AWAY REDY MIX

401 KENNEDY STREET

OAKLAND, CALIFORNIA

November 8, 1992

Project C92032

GROUND WATER SAMPLING REPORT
for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California as indicated on Figure 1. The site is currently occupied by Right Away Redy Mix.

Three open-standpipe piezometers were installed around the existing underground diesel fuel storage tank and dispensing island in December, 1991 by Geo Plexus, Incorporated to obtain soil samples for analytical testing and to establish site-specific ground water flow information. The top of the piezometer casings were surveyed to establish relative elevations and it was determined that piezometer P-3 was located down gradient of the dispensing pump area (location of previous release). Piezometer P-3 was subsequently developed as a ground water monitoring well (identified as Monitoring Well P-3) and was sampled.

This report is the second scheduled quarterly monitoring report and presents the recorded ground water elevations, the sampling protocol, and results of the analytical testing performed on the ground water samples collected from Monitoring Well P-3 on November 2, 1992.

MONITORING WELL SAMPLING

Free product measurements were obtained for the monitoring well at the time of sample acquisition utilizing a teflon bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product or visible sheens were not observed in the initial bailer water samples or following purging of the well.

Prior to sampling Monitoring Well P-3, four to six well volumes were purged from each well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized and the water appeared free of suspended solids.

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

Water samples for analytical testing were obtained through the use of a teflon bailer and were collected in sterilized glass 40 ml. vials and 1 ltr. jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives (HCl) added to the sample. A travel blank (identified as MW-A) was obtained from the analytical testing laboratory, transported to the field with the sample vials, and was submitted along with other samples for analysis. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

The water obtained from the monitoring well during the purging and sampling activities was contained on-site in 55-gallon drums pending receipt of the laboratory test results.

GRADIENT SURVEY

The elevation of the top of the casing of the monitoring well and other piezometers at the site were established during previous investigations with vertical control of 0.01 foot. Prior to purging the monitoring well, the depth to ground water in each well was measured to the nearest 0.01 foot with an electronic water level meter.

Ground water elevations recorded suggest that the ground water flow across the site is in a northeast direction (see Figure 2) at a gradient of 0.0059 ft/ft with Monitoring Well P-3 in a down- to cross-gradient direction from the dispensing island and existing underground diesel fuel storage tank.

ANALYTICAL TESTING

The ground water samples were submitted to and tested by Anamatrix Laboratories located in San Jose, California. The samples were tested for Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015 and Volatile Aromatics by EPA Method 8020/5030. The travel blank was submitted for analysis for Volatile Aromatics by EPA Method 8020. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

SUMMARY OF FINDINGS

Ground water elevations recorded during the sampling suggest that ground water is at a depth of 10-11 feet below the ground surface and flows across the site in a northeast direction at a gradient of 0.0059 ft/ft. The flow direction places Monitoring Well P-3 in a down- to cross-gradient direction from the dispenser island and existing underground diesel fuel storage tank.

The analytical testing detected reportable quantities of Total Petroleum Hydrocarbons as diesel at a concentration of 210 ppb in the water sample obtained from Monitoring Well P-3. It is noted that the analytical report states that the concentration reported as diesel is primarily due to the presence of discrete hydrocarbon peaks not indicative of diesel. Volatile Aromatics (Benzene, Toluene, Ethylbenzene, and Total Xylenes) were not detected in the water sample obtained from Monitoring Well P-3. Table 1 summarizes the current analytical test results along with the previous analytical testing results.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-Benzene</u>	<u>Total Xylenes</u>
<u>Monitoring Well P-3</u>					
1-8-92	290	N.D.	N.D.	N.D.	N.D.
8-17-92	74	N.D.	N.D.	N.D.	N.D.
11-2-92	210	N.D.	N.D.	N.D.	N.D.

Note: Total Petroleum Hydrocarbons as diesel
N.D. indicates non-detectable concentrations

The ground water monitoring wells located at the project site are scheduled to be sampled again in February, 1993 in accordance with the direction for quarterly monitoring from the Alameda County Health Care Services, Department of Environmental Health.

LIMITATIONS

We have only observed a small portion of the pertinent subsurface and ground water conditions present at the site. The conclusions and recommendations made herein are based on the assumption that subsurface and ground water conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

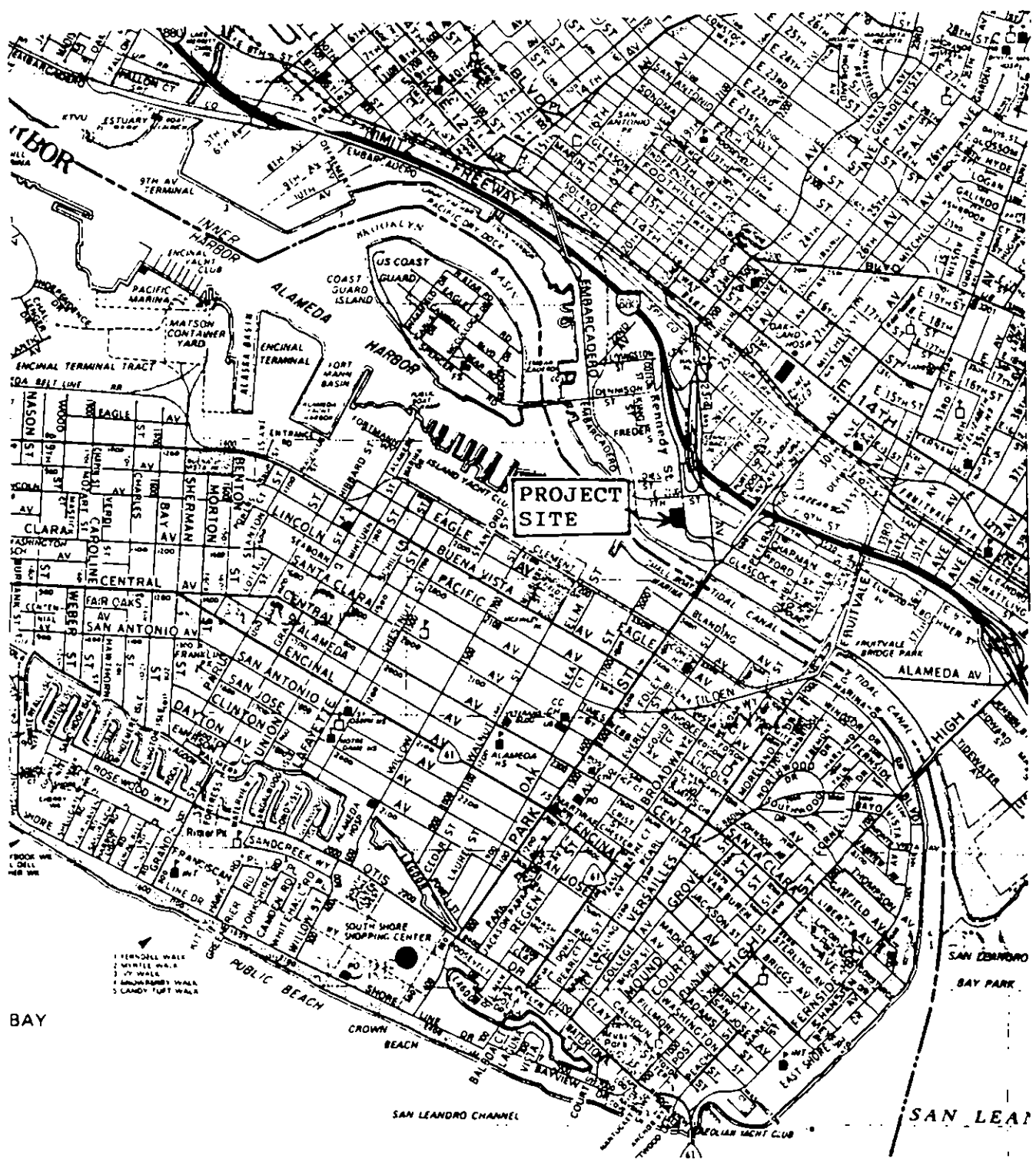
No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

Geo Plexus, Incorporated

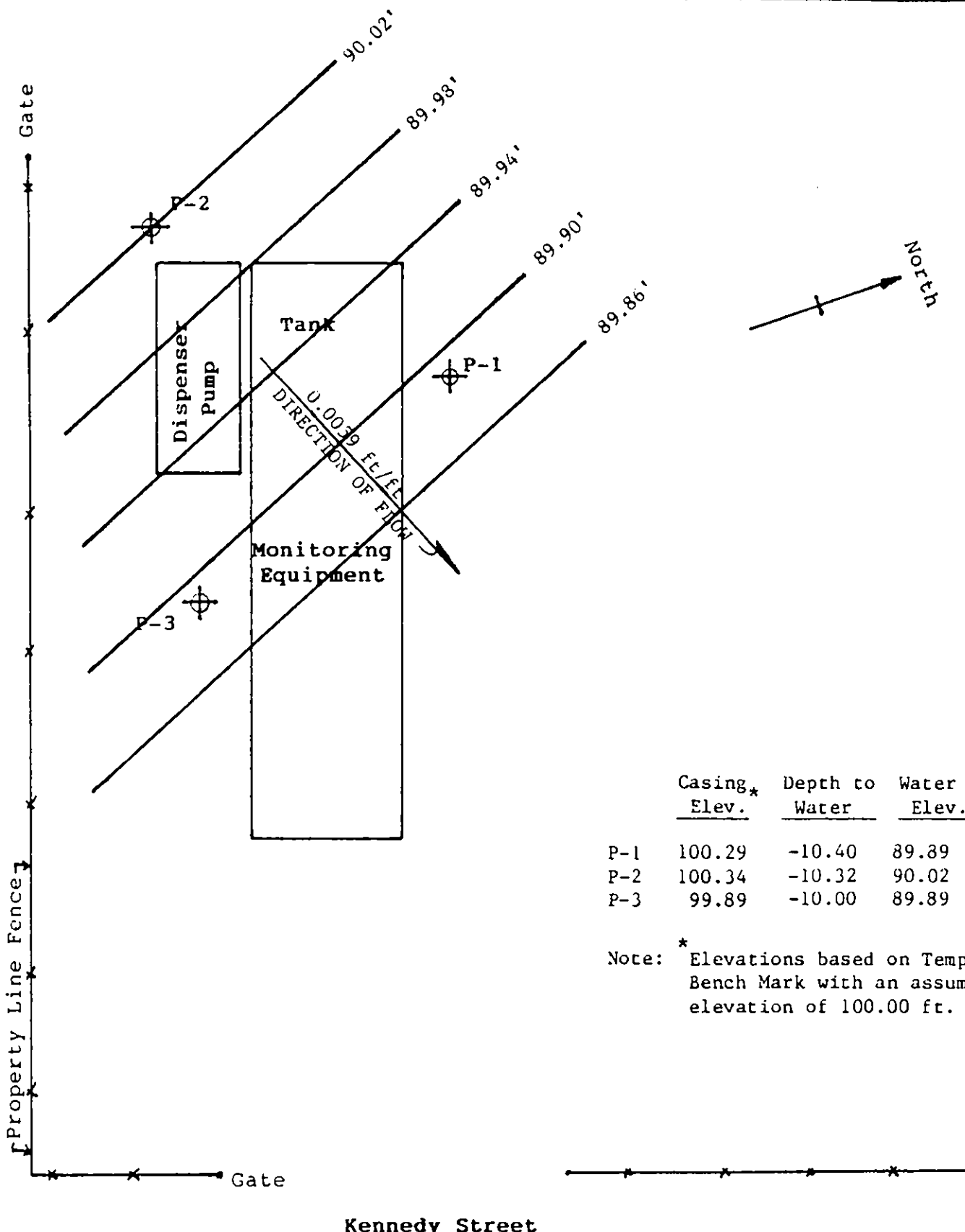
Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815



- 1 TERRACE WALL
- 2 CURB WALL
- 3 SANDWICH WALL
- 4 SANDY TURT WALL

RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	NA	JCM
VICINITY MAP		
P91024		Figure 1



	Casing* Elev.	Depth to Water	Water Elev.
P-1	100.29	-10.40	89.89
P-2	100.34	-10.32	90.02
P-3	99.89	-10.00	89.89

Note: * Elevations based on Temporary Bench Mark with an assumed elevation of 100.00 ft.

⊕ P-1 indicates approximate location of piezometers

RIGHT AWAY REDY MIX		
DATE 11-2-92	SCALE 1"=10'	DRAWN BY DCG/JCM
SITE PLAN		
		Figure 2

Quarterly Ground Water Sampling Report
Right Away Redy Mix
Oakland, California

November 20, 1992

APPENDIX A
CHAIN-OF-CUSTODY FORM
AND
ANALYTICAL TEST DATA

Geo Plexus, Incorporated

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

PROJECT NUMBER		PROJECT NAME				Number of Containers	Type of Containers	Type of Analysis				Condition of Samples	Initial
092029		Right AWAY Redymix						Left Standards					
Send Report Attention of:		Report Due		Verbal Due		Entire							
DAVID Glick		1 1		1 1									
Sample Number	Date	Time	Coop	Grab	Station Location								
MWA- WS1-A,B	11/2/92	0930		✓	Mon Well A	2 ea	Acid: Side 40 mL UOA			✓			
MWP-3 WS1-A,B,C	11/2/92	1218		✓	Mon Well P-3	3 ea	acid: Side 40 mL UOA			✓			
MWF-3 WS2-A,B	11/2/92	1226 1229		✓	Mon Well P-3	2 ea	1 LTR			✓			
Requisitioned by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks: Purchase Order #001									
Requisitioned by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Standard Turnaround									
Requisitioned by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	COMPANY: Geo Plexus, Inc. ADDRESS: 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 PHONE: (408) 987-0210 FAX: (408) 988-0815									

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID C. GLICK
GEOPLEXUS, INC.
1900 WYATT DRIVE, SUITE #1
SANTA CLARA, CA 95054

Workorder # : 9211008
Date Received : 11/02/92
Project ID : C92029
Purchase Order: 92-30062
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9211008- 1	MWA	WATER	11/02/92	BTEX
9211008- 2	MWP-3	WATER	11/02/92	BTEX
9211008- 2	MWP-3	WATER	11/02/92	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID C. GLICK
GEOPLEXUS, INC.
1900 WYATT DRIVE, SUITE #1
SANTA CLARA, CA 95054

Workorder # : 9211008
Date Received : 11/02/92
Project ID : C92029
Purchase Order: 92-30062
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as diesel for sample MWP-3 is primarily due to the presence of discrete hydrocarbon peaks not indicative of diesel.

David C. Glick 11/02/92
Department Supervisor Date

Reggie Truitt 11/13/92
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9211008
Matrix : WATER
Date Sampled : 11/02/92

Project Number : C92029
Date Released : 11/12/92

Reporting Limit	Sample I.D.# MWA	Sample I.D.# MWP-3	Sample I.D.# BN0905E3	Sample I.D.# BN0501E3
COMPOUNDS (ug/L)	-01	-02	BLANK	BLANK
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND
% Surrogate Recovery	104%	121%	109%	90%
Instrument I.D.	HP8	HP8	HP8	HP8
Date Analyzed	11/10/92	11/06/92	11/09/92	11/05/92
RLMF	1	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

David Davison III
Analyst Date

Cheryl Ballman 11/13/92
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anamatrix W.O.: 9211008
Matrix : WATER
Date Sampled : 11/02/92
Date Extracted: 11/05/92

Project Number : C92029
Date Released : 11/12/92
Instrument I.D.: HP23

Anamatrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9211008-02	MWP-3	11/07/92	50	210
DWBL110592	METHOD BLANK	11/06/92	50	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Kennie Dawson 11/13/92
Analyst Date

Charles B. ... 11/13/92
Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : C92029 MWP-3
 Matrix : WATER
 Date Sampled : 11/02/92
 Date Analyzed : 11/06/92

Anamatrix I.D. : 9211008-02
 Analyst : RD
 Supervisor : *OM*
 Date Released : 11/12/92
 Instrument I.D.: HP8

COMPOUND	SPIKE AMT (ug/L)	SAMPLE CONC (ug/L)	REC MS	%REC MS	REC MD (ug/L)	%REC MD	RPD	%REC LIMITS
BENZENE	10.0	0.0	9.7	97%	7.6	76%	-24%	49-159
TOLUENE	10.0	0.0	11.0	110%	8.7	87%	-23%	53-156
ETHYLBENZENE	10.0	0.0	9.3	93%	8.6	86%	-8%	54-151
TOTAL XYLENES	10.0	0.0	9.8	98%	8.1	81%	-19%	56-157
p-BFB				97%		117%		53-147

* Quality control established by Anamatrix, Inc.

BTEX LABORATORY CONTROL SAMPLE REPORT
 EPA METHOD 5030 WITH GC/PID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE Anamatrix I.D.: LCSW1106
 Matrix : WATER Analyst : RD
 Date Sampled : N/A Supervisor :
 Date Analyzed : 11/06/92 Date Released : 11/12/92
 Instrument ID : HP8

COMPOUND	SPIKE AMT. (ug/L)	LCS (ug/L)	REC LCS	%REC LIMITS
Benzene	10.0	8.3	83%	49-159
Toluene	10.0	9.9	99%	53-156
Ethylbenzene	10.0	9.6	96%	54-151
TOTAL Xylenes	10.0	9.5	95%	56-157
P-BFB			93%	53-147

* Limits established by Anamatrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
 EPA METHOD 3510 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : WATER
 Date Sampled : N/A
 Date Extracted: 11/05/92
 Date Analyzed : 11/07/92

Anamatrix I.D. : LCSW1105
 Analyst :
 Supervisor :
 Date Released : 11/12/92
 Instrument I.D.: HP23

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	1200	96%	890	71%	-30%	63-130

*Quality control established by Anamatrix, Inc.

GeoPlexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

92 SEP 17 1992
September 8, 1992
Project C92032

Mr. Geoffrey Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

Subject: August, 1992 Quarterly Ground Water Sampling Report for
Right Away Redy Mix, 401 Kennedy Street, Oakland, CA

Dear Mr. Henrikson:

As requested and authorized, the attached Ground Water Sampling Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the sampling protocol, recorded ground water elevations, and results of the analytical testing performed on the ground water samples collected on August 17, 1992.


In summary, the water samples obtained from Monitoring Well P-3 contained detectable concentrations of Total Petroleum Hydrocarbons as diesel (74 ppb) but did not contain detectable concentrations of Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylenes). The diesel concentrations are significantly reduced from the 290 ppb recorded in January, 1992.

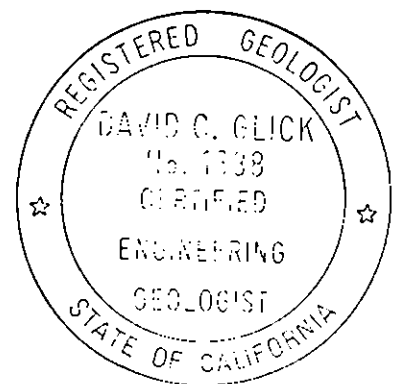
It has been a pleasure to be of service to you on this project. The next scheduled sampling event is in November, 1992. Questions or comments regarding the attached report should be addressed to the undersigned. Copies of this report should be forwarded to:

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Mr. R. Hiatt
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 500
Oakland, CA 94612

Respectfully submitted,
Geo Plexus, Incorporated


David C. Glick, CEG 1338
Director, Geological and
Environmental Services



Enclosure:
Ground Water Sampling Report

GROUND WATER SAMPLING REPORT

for

RIGHT AWAY REDY MIX

401 KENNEDY STREET

OAKLAND, CALIFORNIA

September 8, 1992

Project C92032

GROUND WATER SAMPLING REPORT
for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California as indicated on Figure 1. The site is currently occupied by Right Away Redy Mix.

Three open-standpipe piezometers were installed around the existing underground diesel fuel storage tank and dispensing island in December, 1991 by Geo Plexus, Incorporated to obtain soil samples for analytical testing and to establish site-specific ground water flow information. The top of the piezometer casings were surveyed to establish relative elevations and it was determined that piezometer P-3 was located down gradient of the dispensing pump area (location of previous release). Piezometer P-3 was subsequently developed as a ground water monitoring well (identified as Monitoring Well P-3) and was sampled.

This report is the first scheduled quarterly monitoring report and presents the recorded ground water elevations, the sampling protocol, and results of the analytical testing performed on the ground water samples collected from Monitoring Well P-3 on August 17, 1992.

MONITORING WELL SAMPLING

Free product measurements were obtained for the monitoring well at the time of sample acquisition utilizing a teflon bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product or visible sheens were not observed in the initial bailer water samples or following purging of the well.

Prior to sampling Monitoring Well P-3, four to six well volumes were purged from each well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized and the water appeared free of suspended solids.

Geo Plexus, Incorporated

2922 Scott Blvd., Santa Clara, California 95054 Phone 408/287-8588 Fax 408/988-0815

SUMMARY OF FINDINGS

Ground water elevations recorded during the sampling suggest that ground water is at a depth of 10-11 feet below the ground surface and flows across the site in an easterly direction at a gradient of 0.0015 ft/ft. The easterly flow direction places Monitoring Well P-3 in a "down-gradient" direction from the dispenser island and existing underground diesel fuel storage tank.

The analytical test detected reportable quantities of Total Petroleum Hydrocarbons as diesel at a concentration of 74 ppb in the water sample obtained from Monitoring Well P-3. Volatile Aromatics (Benzene, Toluene, Ethylbenzene, and Total Xylenes) were not detected in the water sample obtained from Monitoring Well P-3. Table 1 summarizes the current analytical test results along with the previous analytical testing results.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-Benzene</u>	<u>Total Xylenes</u>
<u>Monitoring Well P-3</u>					
1-8-92	290	N.D.	N.D.	N.D.	N.D.
8-17-92	74	N.D.	N.D.	N.D.	N.D.

Note: Total Petroleum Hydrocarbons as diesel
N.D. indicates non-detectable concentrations

The concentrations of Total Petroleum Hydrocarbons as diesel has reduced significantly from the 290 ppb concentrations recorded in January, 1992 (following remedial over-excavation activities).

RECOMMENDATIONS

The ground water monitoring wells located at the project site are scheduled to be sampled again in November, 1992 in accordance with the direction for quarterly monitoring from the Alameda County Health Care Services, Department of Environmental Health.

Geo Plexus, Incorporated

2922 Scott Blvd., Santa Clara, California 95054 Phone 408/287-8588 Fax 408/988-0815

LIMITATIONS

We have only observed a small portion of the pertinent subsurface and ground water conditions present at the site. The conclusions and recommendations made herein are based on the assumption that subsurface and ground water conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

Geo Plexus, Incorporated

Geo Plexus, Incorporated

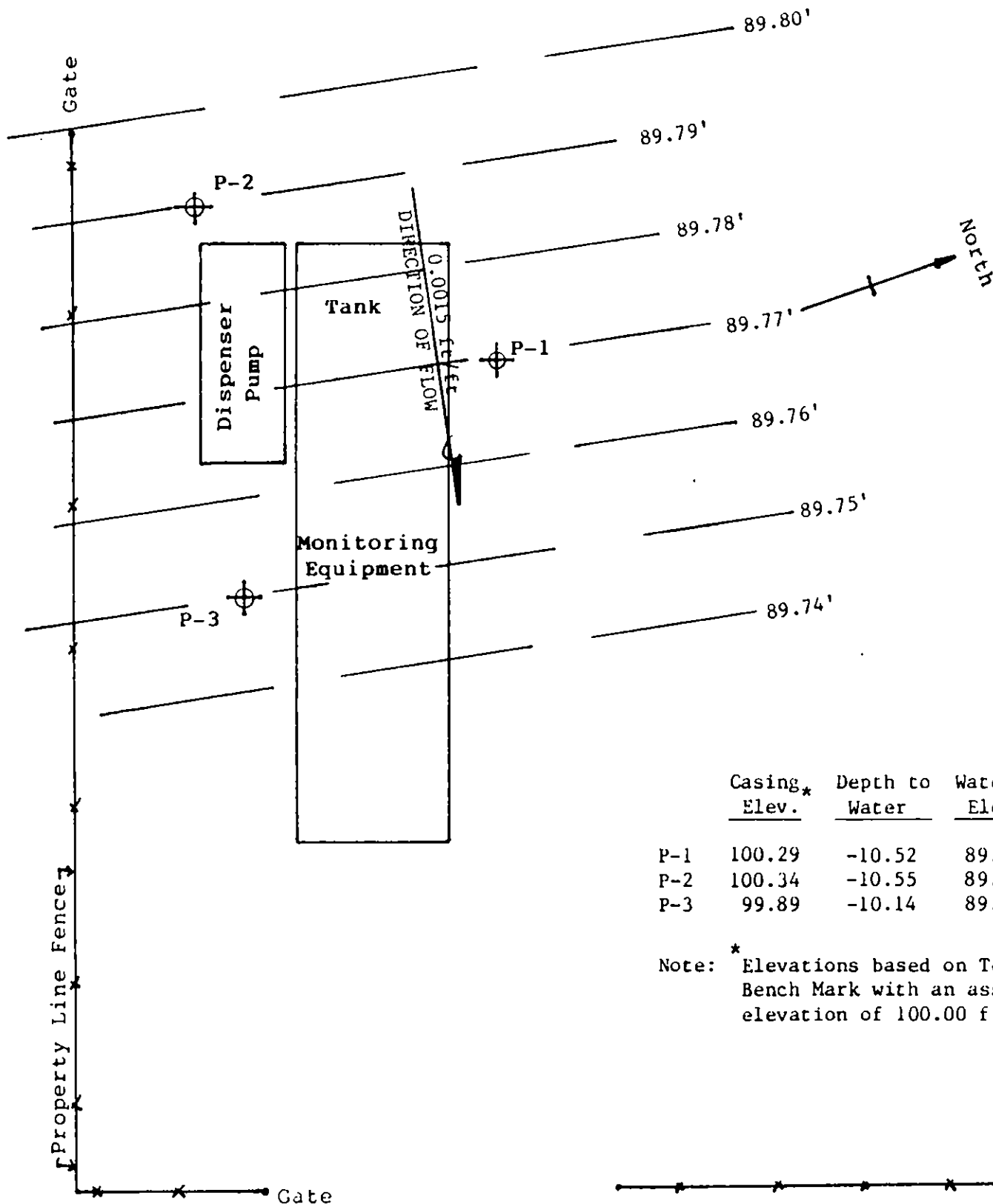
2922 Scott Blvd., Santa Clara, California 95054 Phone 408/287-8588 Fax 408/988-0815



PROJECT SITE

- 1 FERRIS WALK
- 2 MERTLE WALK
- 3 1ST WALK
- 4 GARDENWAY WALK
- 5 CANDY TURT WALK

RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	NA	JCM
VICINITY MAP		
P91024	Figure 1	



	Casing* Elev.	Depth to Water	Water Elev.
P-1	100.29	-10.52	89.77
P-2	100.34	-10.55	89.79
P-3	99.89	-10.14	89.75

Note: * Elevations based on Temporary Bench Mark with an assumed elevation of 100.00 ft.

⊕ P-1 indicates approximate location of piezometers

Kennedy Street

RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
8/17/92	1"=10'	DCG/JCM
SITE PLAN		
		Figure 2

Quarterly Ground Water Sampling Report
Right Away Redy Mix
Oakland, California

September 8, 1992

APPENDIX A
CHAIN-OF-CUSTODY FORM
AND
ANALYTICAL TEST DATA

Geo Plexus, Incorporated

2922 Scott Blvd., Santa Clara, California 95054 Phone 408/287-8588 Fax 408/988-0815

17:15 JUL

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis								Condition of Samples	Initial
C92029		Right Away															
Send Report Attention of:			Report Due		Verbal Due												
DAVID GLICK			1 1		1 1												
Sample Number	Date	Time	Comp	Grab	Station Location			BTEX	TPHd								
MWP-3 006 WS1A,B,C	8/17/92	1545		1	mon well 1	3CA	ACIDIFIED 40 ml VWA	✓									
MWP-3 016 WS2A,B	8/17/92	1545		1	mon well 1	2CA	1LTR		✓								
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks:													
<i>[Signature]</i>	8/18/92 1700	<i>Michael Aguilar</i>	8/18/92 1700	Purchase Order No.: 92.30038													
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	STANDARD TURN AROUND													
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	COMPANY: Geo Plexus, Inc.													
				ADDRESS: 2922 Scott Blvd., Santa Clara, CA 95054													
				PHONE : (408) 287-8588 FAX : (408) 988-0815													

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID C. GLICK
GEOPLEXUS, INC.
2922 SCOTT BLVD.
SANTA CLARA, CA 95054

Workorder # : 9208204
Date Received : 08/18/92
Project ID : C92029
Purchase Order: 92.30038
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9208204- 1	MWP-3	WATER	08/17/92	BTEX
9208204- 1	MWP-3	WATER	08/17/92	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID C. GLICK
GEOPLEXUS, INC.
2922 SCOTT BLVD.
SANTA CLARA, CA 95054

Workorder # : 9208204
Date Received : 08/18/92
Project ID : C92029
Purchase Order: 92.30038
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for this sample.

Charles Brannen 08/18/92
Department Supervisor Date

Reggie Dawson 9/1/92
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anamatrix W.O.: 9208204
Matrix : WATER
Date Sampled : 08/17/92
Date Extracted: 08/19/92

Project Number : C92029
Date Released : 08/31/92
Instrument I.D.: HP23

Anamatrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9208204-01	MWP-3	08/24/92	50	74
DWBL081992	METHOD BLANK	08/23/92	50	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Johnson 9/1/92
Analyst Date

Chris A. Bulmer 9/1/92
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9208204
Matrix : WATER
Date Sampled : 08/17/92

Project Number : C92029
Date Released : 08/31/92

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# MWP-3	Sample I.D.# BG2502E3
Benzene	0.5	ND	ND
Toluene	0.5	ND	ND
Ethylbenzene	0.5	ND	ND
Total Xylenes	0.5	ND	ND
% Surrogate Recovery		84%	89%
Instrument I.D.		HP4	HP4
Date Analyzed		08/25/92	08/25/92
RLMF		1	1

ND - Not detected at or above the practical quantitation limit for the method.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 9/1/92
Analyst Date

Cheryl Balmer 9/1/92
Supervisor Date

January 24, 1992
Project P91024

Mr. Geoffrey V. Henrikson
Right Away Redy Mix
401 Kennedy Street
Oakland, CA 94606

Subject: Preliminary Site Characterization Investigation Report
Right Away Redy Mix, 401 Kennedy Street, Oakland, CA

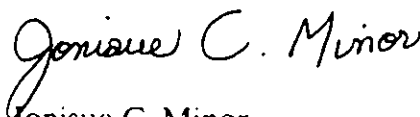
Dear Mr. Henrikson:

As requested and authorized, the attached Preliminary Site Characterization Investigation Report has been prepared to document the field investigation efforts performed at the subject site related to installation of three piezometers, one of which was subsequently developed into a ground water monitoring well. The report presents the findings of the investigation and analytical testing performed on soil and ground water samples obtained during the investigation along with conclusions and recommendations based on these findings.

It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to the undersigned.

Respectfully submitted,

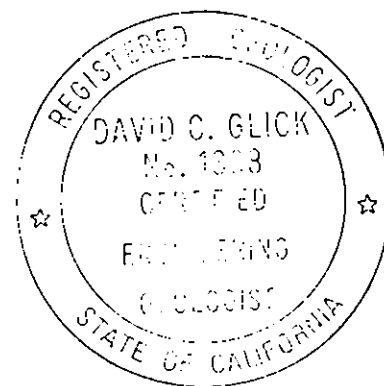
Geo Plexus, Incorporated



Jonisue C. Minor
Senior Project Geologist



David C. Glick, CEG 1338
Director, Geological and
Environmental Services



PRELIMINARY
SITE CHARACTERIZATION INVESTIGATION
for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

January 24, 1992

GEO PLEXUS, INCORPORATED
753 N. 9th Street, Suite 131, San Jose, CA 95112

PRELIMINARY
SITE CHARACTERIZATION INVESTIGATION
for
RIGHT AWAY REDY MIX
401 KENNEDY STREET
OAKLAND, CALIFORNIA

INTRODUCTION

The project site is located at 401 Kennedy Street in the City of Oakland, in Alameda County, California as indicated on Figure 1. The site is currently occupied by Right Away Redy Mix.

SCOPE OF WORK

To characterize the potential impact to the underlying soil and ground water resources present at the site, Geo Plexus, Incorporated performed an investigation as described below:

- (1) advancing three subsurface exploration borings to a maximum depth of 20 feet in the immediate area of the dispensing pump and underground storage tank to define the subsurface conditions and to obtain soil samples from the soil borings for analytical testing;
- (2) complete the three borings as open-standpipe piezometers to define the ground water conditions at the site;
- (3) survey the well locations and determine the direction of ground water flow and gradient;
- (4) develop the down-gradient piezometer as a monitoring well and collection of ground water samples for analytical testing;
- (5) performing analytical testing on the soil and ground water samples; and
- (6) preparation of this report documenting the findings of the investigation and presenting the results of the analytical testing.

Specifics of the individual investigative phases are described in the following sections of this report.

SUBSURFACE INVESTIGATION

Three subsurface exploration borings were advanced in the immediate vicinity of the dispensing pump and underground storage tank (see Figure 2) to characterize the underlying soils and to obtain soil samples for analytical testing. The borings were drilled by Exploration Geoservices, a State of California Licensed Drilling Contractor, C57 License No. 489288.

The borings were advanced using an eight (8) inch, nominal diameter, continuous flight hollow stem auger. Soil samples were obtained from the borings at five foot intervals through the use of a 2-inch I.D. split-barrel sampler. The sampler was advanced into the undisturbed soil ahead of the auger by a 140 pound hammer repeatedly falling 30 inches. Sand catchers were used as necessary to retain the samples. Pre-cleaned brass liners were placed in the sampler to retain the soil. The blow counts necessary to advance the sampler were recorded for each 6-inch interval. The boring was logged under the supervision of a State of California Certified Engineering Geologist. The Boring Logs are presented as Figures 3-5.

The drill cuttings and soil samples obtained from the borings were monitored during drilling to observe moisture changes in the soils and to determine the depth of the first saturated zone. The borings were advanced a maximum of 10 feet into the saturated zone.

The drilling and sampling equipment was thoroughly steam cleaned before drilling began to prevent the introduction of off-site contamination and the augers were steam cleaned between borings to prevent cross-contamination. The sampling equipment was cleaned between each sample event by washing in a hot water bath with a phosphate-free detergent and then rinsed in a hot water bath to prevent cross contamination. The soil cuttings and rinsate water derived from the soil borings and steam cleaning were contained in 55-gallon containers. Disposal of the contained soil remains the responsibility of the client.

The soil samples obtained from the borings were immediately sealed in the liners using aluminum foil and plastic caps and properly labeled including: the date, time, sample location, and project number. The samples were placed on ice immediately for storage and were transported to the laboratory under chain-of-custody documentation (see Appendix A).

PIEZOMETER INSTALLATION

Following completion of the drilling, the borings were completed as open standpipe piezometers (identified as Piezometers P-1, P-2 and P-3) constructed in accordance with Alameda County Monitoring Well Construction Guidelines. The piezometers were constructed by installing 2-inch diameter polyvinyl chloride (PVC) flush-threaded casing and slotted pipe directly through the hollow stem auger. The slotted section of the PVC pipe was installed through the saturated zone in the piezometers had 0.010 inch factory perforations. The PVC materials used in the piezometer construction were thoroughly cleaned prior to introduction into the boring.

The piezometers were filter-packed with clean #2/16 silica sand throughout the screened interval. The filter-pack material was installed in the annular spacing between the piezometer well pipe and the bore hole wall as the auger was removed. The filter-pack was extended two feet above the top of the screened interval. To assure continuity and integrity of the filter material, and to prevent the bore hole from caving, no more than five feet of auger was removed at a time during placement of the filter-pack.

A one foot thick layer of bentonite pellets was placed above the filter material to provide an annular seal. The bentonite was hydrated with water prior to placement of the grout seal. The remainder of the boring was filled with an 11-sack cement-sand slurry to within one foot of grade. A locking cap was placed on the PVC well casing and a water tight aluminum traffic box was installed in concrete flush with the ground surface over the well casing. Figures 6-8 illustrate the construction of Piezometers P-1, P-2, and P-3, respectively.

SUBSURFACE CONDITIONS

The soil borings revealed near uniform subsurface soil conditions consisting of interbedded medium brown sandy clay to clayey sand to a depth of 20 feet (limit of borings). Borings 1 and 2 encountered approximately 4 feet of fill, probably from the installation of the dispensing island.

Ground water was encountered in the exploration borings at a depth of approximately 9.5 feet below the ground surface at the time of drilling.

GRADIENT SURVEY

The elevation of the top of each piezometer casing was established with vertical control to 0.01 feet. The depth to ground water (measured to the nearest 0.01 foot) was measured with an electronic water level meter in each piezometer. Depth to ground water measurements were recorded at three different times (high tide, low tide, and intertidal

levels) to determine if the site was subject to tidal influences. Ground water elevations recorded during the investigation suggest that the ground water is located approximately 9.0 to 9.5 feet below the ground surface and flows across the site in a easterly direction at a gradient of 0.006 ft/ft (see Figure 9). The various water levels recorded did not indicate changes in the direction of flow. Piezometer P-3 was determined to be located down-gradient of the dispensing pump.

MONITORING WELL DEVELOPMENT

Piezometer P-3 was identified as the down gradient well and was subsequently developed into a monitoring well. Piezometers P-1 and P-2 were not developed. Free product measurements were obtained for each piezometer prior to development of piezometer P-3 utilizing an acrylic bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product or visible sheen were not observed in the well.

The piezometers were allowed to stabilize for a minimum of 48 hours following construction prior to development activities. The initial development of piezometer P-3 was through the use of an acrylic bailer. The piezometer/well was developed until a minimum of four well volumes had been purged and the discharged water appeared clear of sediment. Electrical conductivity, temperature, and pH of the ground water was recorded throughout the development process. The piezometer/well development continued until the electrical conductivity, temperature, and pH of the discharged water stabilized (approximately 6 well volumes). Depth to water measurements were recorded prior to and following the well development activities. The water developed from the piezometer/well was contained on-site in a 55-gallon container pending receipt of the laboratory test results.

MONITORING WELL SAMPLING

Free product measurements were obtained for the piezometer/monitoring well at the time of sample acquisition utilizing an acrylic bailer lowered into the wells to obtain a surface water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product or visible sheen was not observed in the well prior to the purging activities.

Prior to sampling, a minimum of four well volumes were purged from piezometer P-3 through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water was recorded throughout the development process. The purging activity continued until the electrical conductivity, temperature, and pH of the discharged water stabilized. The water purged from the piezometer/well was contained on-site in a 55-gallon container pending receipt of the laboratory test results.

The water samples were collected in sterilized glass vials with Teflon lined screw caps. The water samples collected for Volatile Organics were collected in 40 mil. vials acidified with HCL by the analytical laboratory. The water samples collected for Total Petroleum Hydrocarbons as diesel were collected in sterilized 1-liter amber jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives added to the sample.

A travel blank was obtained from the analytical testing laboratory, transported to the field with the sample vials, and was submitted along with other samples for analysis (identified as MW-A). The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

ANALYTICAL TESTING

The soil and ground water samples were submitted to and tested by Anamatrix, Inc., a State of California, Department of Health Services certified testing laboratory. Analytical testing was scheduled and performed in accordance with the State of California, Regional Water Quality Control Board and Alameda County Guidelines. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

The soil samples were tested for Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015 and Volatile Aromatics by EPA Method 8020 as indicated on the Chain-of-Custody Form.

The ground water samples were tested for Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015 and Volatile Aromatics by EPA Method 602 as indicated on the Chain-of-Custody Form. The travel blank was tested for Volatile Aromatics by EPA Method 602. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

CONCLUSIONS

The analytical testing did not detect Total Petroleum Hydrocarbons as diesel in the soil samples obtained from the exploratory borings for Piezometers P-1, P-2 or P-3. The analytical testing did not detect Volatile Organics (Benzene, Toluene, Ethyl Benzene, and Xylenes) in the soil samples obtained from piezometers P-1 and P-3. Low concentrations of Xylenes (0.007 ppm and 0.006 ppm) were detected in soil samples obtained at depths of 10 and 13 feet in piezometer P-2.

The analytical testing did not detect Volatile Organics (Benzene, Toluene, Ethyl Benzene, and Xylenes) in the water samples obtained from Monitoring Well P-3; however, Total Petroleum Hydrocarbons as diesel were detected at a concentration of 290 parts per billion.

Low concentrations of Toluene and Xylenes were detected in the travel blank (identified as MWA). These concentrations are attributed to analytical error.

RECOMMENDATION

It is recommended that the remaining two piezometers be developed into monitoring well and sampled to further evaluate the presence of hydrocarbon products in the ground water.

LIMITATIONS

We have only observed a small portion of the pertinent soil and ground water conditions present at the site. Subsurface conditions across the site have been extrapolated from information obtained from review of existing documents and from the field investigation. The conclusions made herein are based on the assumption that soil conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.



RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	NA	JCM
VICINITY MAP		
P91024		Figure 1

Gate

P-2



Dispenser
Pump

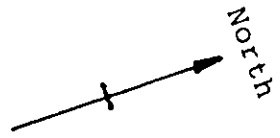
Tank

Monitoring
Equipment

P-1



P-3



Property Line Fence

Gate

Kennedy Street

P-1 indicates approximate location of piezometers

RIGHT AWAY REDY MIX		
DATE	SCALE	DRAWN BY
1/92	1"=10'	DCG/JCM
SITE PLAN		
P91024	Figure 2	

SUBSURFACE DATA LOG

DRY DENSITY (lbs cu ft)	MOISTURE (% of dry wt)	"N" VALUE (blows/ft)	SAMPLE TYPE	DEPTH (ft)	LOG	U.S.C.	LOG No. <u>P-1</u> DATE: <u>12/27/91</u> LOCATION: <u>Right Away Redy Mix</u> EQUIPMENT: <u>Exploration Geoservices</u> PROJECT No. <u>P91024</u>
						SC	<u>CLAYEY SAND</u> to <u>SANDY CLAY</u> , dark brown, damp, medium dense <u>FILL</u> - with occassional medium gravels, small brick fragments and pieces of wire
	28		S1	5		CL	<u>SILTY CLAY</u> , medium brown to dark gray brown with some light gray mottling, moist, stiff
						▽	
	38		S2	10			-increasing to very stiff -minor iron staining
	52		S3 S4			CL/ SC	<u>SANDY CLAY</u> to <u>CLAYEY SAND</u> , light to medium brown, moist to wet, very stiff
				15		SC	<u>CLAYEY SAND</u> with small gravels, medium brown, wet, dense to very dense.
	59		--	20			Boring terminated at 20.0 feet. 2" diameter piezometer constructed

Figure 3.

SUBSURFACE DATA LOG

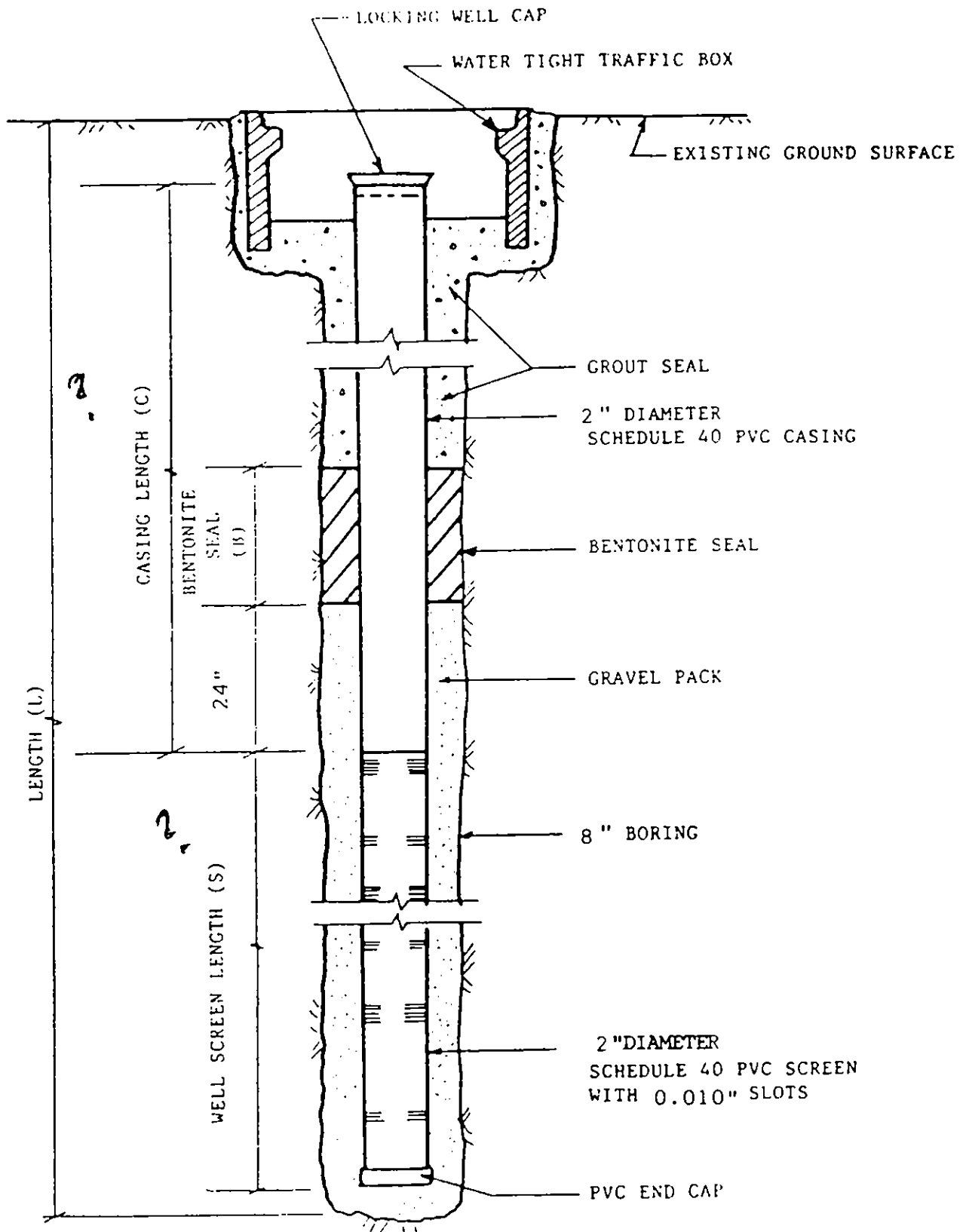
DRY DENSITY (lbs. cu. ft.)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft.)	SAMPLE TYPE	DEPTH (ft.)	LOG	U.S.C.	LOG No. <u>P-2</u> DATE: <u>12/27/91</u> LOCATION: <u>Right Away Redy Mix</u> EQUIPMENT: <u>Exploration Geoservices</u> PROJECT No. <u>P91024</u>
						CL	<u>SANDY CLAY</u> , with some medium grained sand, dark brown, moist, stiff <u>FILL</u>
	23		S1	5		CL	<u>SILTY CLAY</u> , medium brown-gray with some iron staining, moist, stiff
	33		S2	10		CL	<u>SILTY CLAY</u> , grayish brown, moist, stiff to very stiff
	65		S3	15		SC	<u>CLAYEY SAND</u> , medium grained sand with few small gravels ($\frac{1}{4}$ inch), medium brown, wet, dense to very dense
	50/5"			20			Boring terminated at 19.5 feet. 2" diameter piezometer constructed

Figure 4.

SUBSURFACE DATA LOG

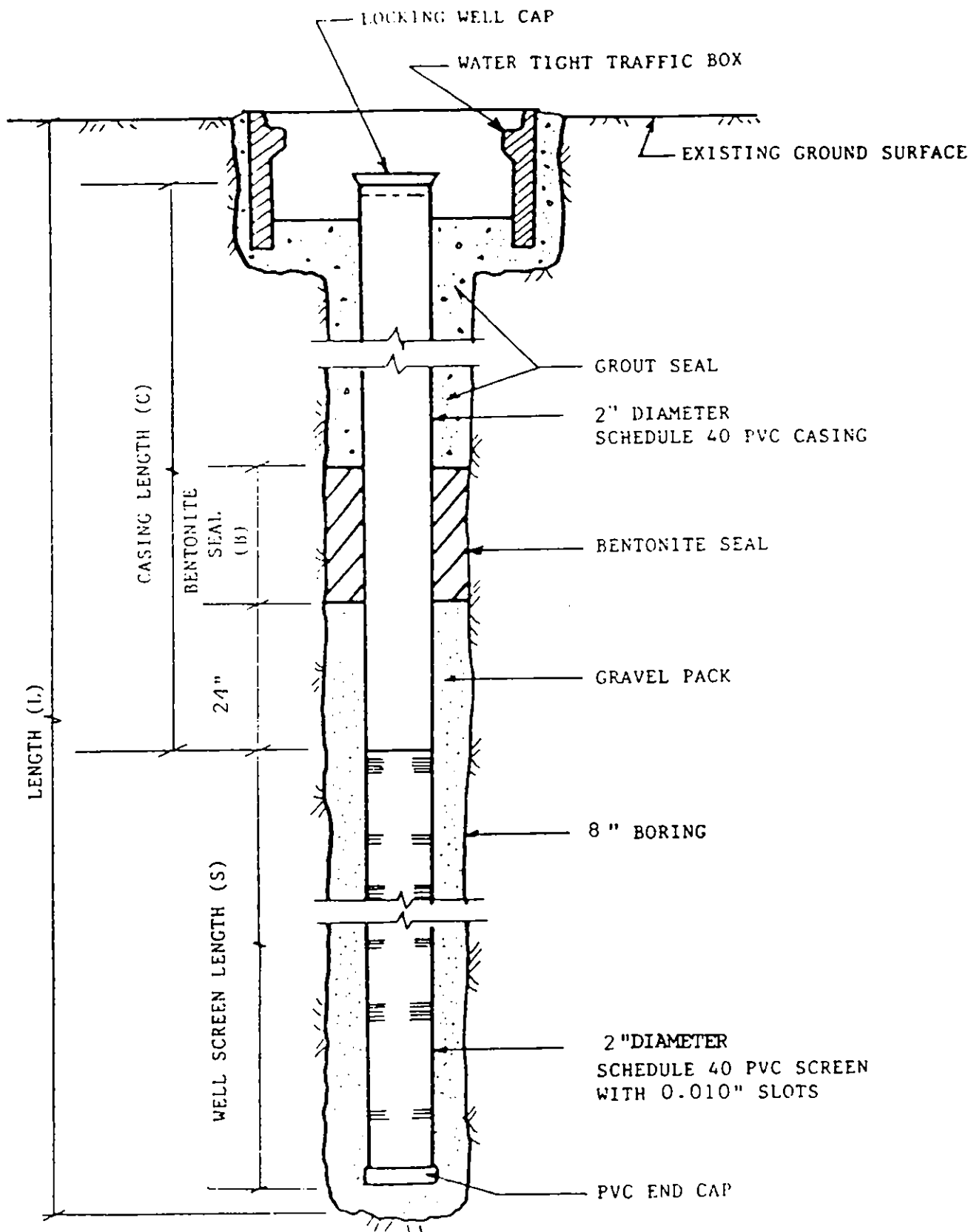
DRY DENSITY (lbs cu ft)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft)	SAMPLE TYPE	DEPTH (ft)	LOG	U.S.C.	LOG No. <u>P-3</u> DATE: <u>12/27/91</u> LOCATION: <u>Right Away Redy Mix</u> EQUIPMENT: <u>Exploration Geoservices</u> PROJECT No. <u>P91024</u>
	13		S1	5	CL		<u>SILTY CLAY</u> , medium brown with some gray mottling, moist, stiff; slight petroleum odor
	65		S2	10	CL		<u>SILTY CLAY</u> , medium to dark gray with some lighter brown mottling, moist, very stiff to hard; some iron staining
	50/4"		S3		SC		<u>CLAYEY GRAVELLY SAND</u> , medium grained sand with some gravels from 1/4" to 3/8", medium to dark brown, moist to very moist, very dense
	74		S4				
	41		S5	20			-wet, hard
							Boring terminated at 19.0 feet. 2" diameter piezometer constructed

Figure 5.



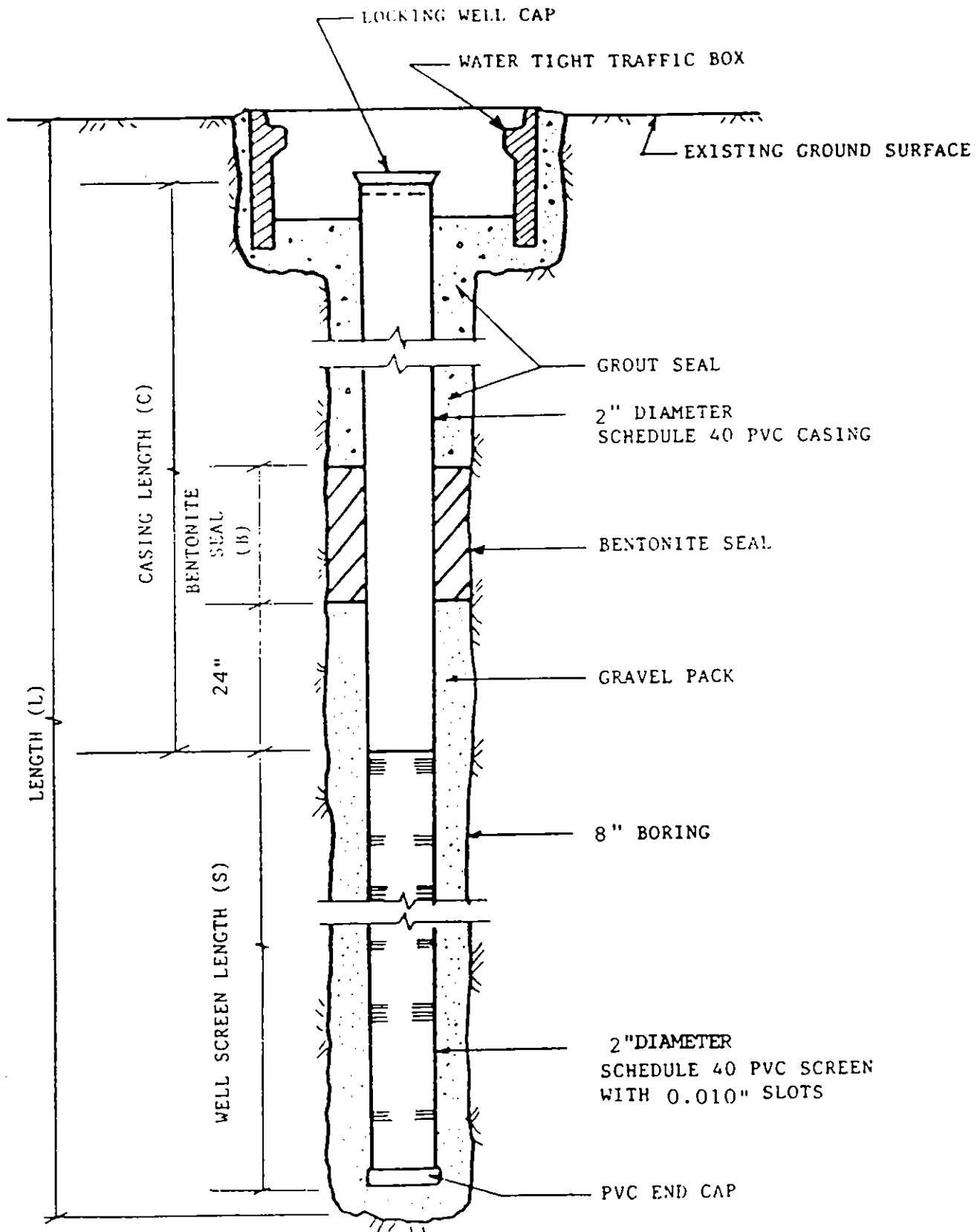
L= 20.0 feet
 S= 10.0 feet
 C= 10.0 feet
 B= 1.0 feet

PIEZOMETER P-1		
DATE	SCALE	DRAWN BY
12-27-91	N/A	JCM
Right Away Redy Mix		
		Figure 6



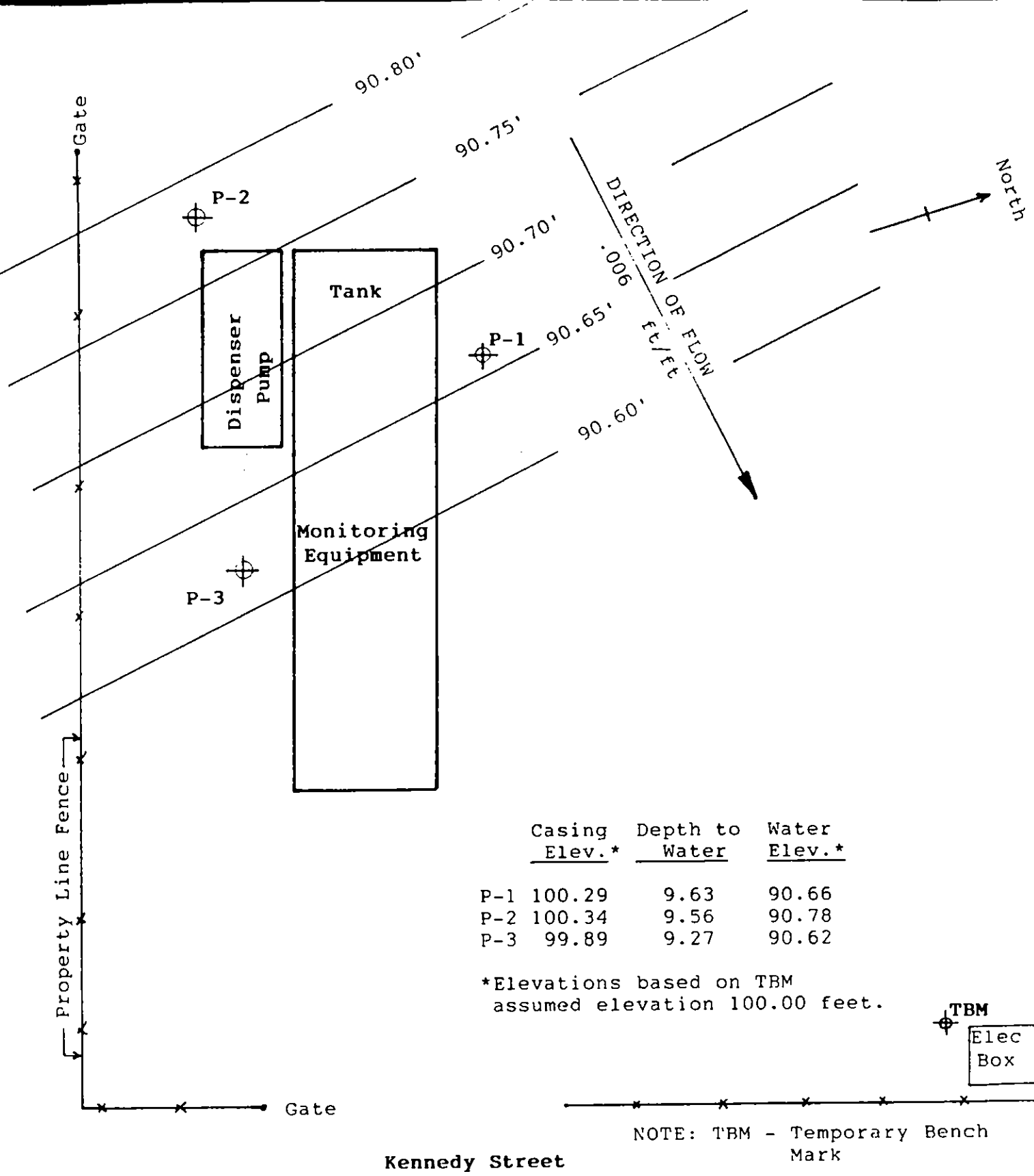
L= 19.0 feet
 S= 10.0 feet
 C= 9.0 feet
 B= 1.0 feet

PIEZOMETER P-2		
DATE 12/27/91	SCALE N/A	DRAWN BY JCM
Right Away Redy Mix		
		Figure 7



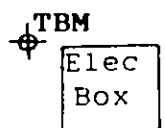
L= 19.5 feet
 S= 10.0 feet
 C= 9.5 feet
 B= 1.0 feet

PIEZOMETER P-3		
DATE	SCALE	DRAWN BY
12/27/91	N/A	JCM
Right Away Redy Mix		
		Figure 8



	<u>Casing Elev.*</u>	<u>Depth to Water</u>	<u>Water Elev.*</u>
P-1	100.29	9.63	90.66
P-2	100.34	9.56	90.78
P-3	99.89	9.27	90.62

*Elevations based on TBM assumed elevation 100.00 feet.



NOTE: TBM - Temporary Bench Mark

⊕ P-1 indicates approximate location of piezometers

RIGHT AWAY REDY MIX		
DATE 1/92	SCALE 1"=10'	DRAWN BY DCG/JCM
GROUND WATER GRADIENT PLAN		
P91024		Figure 9

Preliminary Site Characterization Report
Right Away Redy Mix
Oakland, California

January 24, 1992
Project P91024

APPENDIX A
CHAIN-OF-CUSTODY FORMS
AND
ANALYTICAL TEST DATA

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis						Condition of Samples	Initial
P91024-3		Right Away Rody Mix						TPHD/BTEX							
Send Report Attention of:		Report Due		Verbal Due											
Jonisue C. Minor		/ /		/ /											
Sample Number	Date	Time	Comp	Grab	Station Location										
1	P1-S2	12/27/91			Piez. 1 9.5-10.0	1 ea.	6" brass tubes	✓					samples		
2	P1-S3				Piez. 1 12.0-12.5			✓					Received in p...		
3	P2-S2				Piez. 2 9.5-10.0			✓					checked in p...		
4	P2-S3				Piez. 2 12-12.5			✓					containing...		
5	P3-S2				Piez. 3 9.5-10.0			✓							
6	P3-S4				Piez. 3 12-12.5			✓							

Relinquished by: (Signature) <i>Jonisue C. Minor</i>	Date/Time 12/30/91 1612	Received by: (Signature) <i>Fred ...</i>	Date/Time 12-30-91 1612	Remarks: Standard Turnaround Brass tubes covered w/aluminum foil + plastic caps COMPANY: Geo Plexus, Inc. ADDRESS: 753 N. 9th St. #131, San Jose, CA 95112 PHONE : (408) 287-8588 FAX : (408) 287-8646
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JONISUE C. MINOR
GEOPLEXUS, INC.
753 N. 9TH ST. #131
SAN JOSE, CA 95112

Workorder # : 9112270
Date Received : 12/30/91
Project ID : P91024-3
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9112270- 1	P1-S2	SOIL	12/27/91	BTEX
9112270- 2	P1-S3	SOIL	12/27/91	BTEX
9112270- 3	P2-S2	SOIL	12/27/91	BTEX
9112270- 4	P2-S3	SOIL	12/27/91	BTEX
9112270- 5	P3-S2	SOIL	12/27/91	BTEX
9112270- 6	P3-S4	SOIL	12/27/91	BTEX
9112270- 1	P1-S2	SOIL	12/27/91	TPHd
9112270- 2	P1-S3	SOIL	12/27/91	TPHd
9112270- 3	P2-S2	SOIL	12/27/91	TPHd
9112270- 4	P2-S3	SOIL	12/27/91	TPHd
9112270- 5	P3-S2	SOIL	12/27/91	TPHd
9112270- 6	P3-S4	SOIL	12/27/91	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JONISUE C. MINOR
GEOPLEXUS, INC.
753 N. 9TH ST. #131
SAN JOSE, CA 95112

Workorder # : 9112270
Date Received : 12/30/91
Project ID : P91024-3
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cherise B... 1/2/92
Department Supervisor Date

[Signature] 1/2/92
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
 (GASOLINE WITH BTEX)
 ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9112270
 Matrix : SOIL
 Date Sampled : 12/27/91

Project Number : P91024-3
 Date Released : 01/08/92

	Reporting	Sample I.D.# P3-S4	Sample I.D.# 21B0102A
COMPOUNDS	(mg/Kg)	-06	BLANK
Benzene	0.005	ND	ND
Toluene	0.005	ND	ND
Ethylbenzene	0.005	ND	ND
Total Xylenes	0.005	ND	ND
% Surrogate Recovery		96%	114%
Instrument I.D.		HP21	HP21
Date Analyzed		01/02/92	01/02/92
RLMF		1	1

ND - Not detected at or above the practical quantitation limit for the method.
 BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
 RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

C. J. Fan 1/8/92
 Analyst Date

Michael B. ... 1/8/92
 Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON MATRIX SPIKE REPORT
 EPA METHOD 3550 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : P91024-3 P3-S2
 Matrix : SOIL
 Date Sampled : 12/27/91
 Date Extracted: 12/31/91
 Date Analyzed : 01/02/91

Anamatrix I.D. : 9112270-05
 Analyst : CE
 Supervisor : CB
 Date Released : 01/08/91
 Instrument I.D.: HP 23

COMPOUND	SPIKE AMT. (mg/Kg)	MS (mg/Kg)	%REC MS	MSD (mg/Kg)	%REC MSD	RPD	%REC LIMITS
Diesel	125	110	88%	110	88%	0%	32-143

* Limits established by Anamatrix, Inc.

PROJECT NUMBER		PROJECT NAME					Number of Cntnrs	Type of Containers	Type of Analysis						Condition of Samples	Initial
P91024-3		Right Away Ready Mix							TPHd	BTEX						
Send Report Attention of:			Report Due		Verbal Due											
Jonisue C Minor			/ /		/ /											
Sample Number	Date	Time	Comp	Grab	Station Location											
1	MWA WS1A,B	1/8/93			MON WELL A		2ea	40 mil VOA		✓				sample		
2	P3 WS1-A,B,C	↓			Piezometer 3		3ea	40 mil VOA		✓				Received cool		
3	P3 WS2-A,B	↓			Piezometer 3		2ea	1 ltr amber		✓				proper container		
														no bubbles.		
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Remarks: Standard Turn around										
Jonisue Minor		1/8/93 1944	Fush' Bunk		1/21/92 18:24											
/		/	/		/											
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	COMPANY: Geo Plexus Inc										
/		/	/		/	ADDRESS: 753 N 9th St # 131, San Jose 95112										
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	PHONE : 287-8588						FAX : 287 8644				
/		/	/		/											

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JONISUE C. MINOR
GEOPLEXUS, INC.
753 N. 9TH ST. #131
SAN JOSE, CA 95112

Workorder # : 9201041
Date Received : 01/08/92
Project ID : P91024-3
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9201041- 1	MWA WS1A,B	WATER	01/08/92	BTEX
9201041- 2	P3 WS1A,B,C	WATER	01/08/92	BTEX
9201041- 3	P3 WS2A,B	WATER	01/08/92	TPHd

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9201041
Matrix : WATER
Date Sampled : 01/08/92
Date Extracted: 01/10/92

Project Number : P91024-3
Date Released : 01/21/92
Instrument I.D.: HP23

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9201041-03	P3 WS2A,B	01/10/92	50	290
DWBL011092	METHOD BLANK	01/10/92	50	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 50ug/L.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

C. Fern 1.21.92
Analyst Date

Christina 1/21/92
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON METHOD SPIKE REPORT
 EPA METHOD 3510 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD SPIKE
 Matrix : REAGENT WATER
 Date Sampled : N/A
 Date Extracted: 01/08/92
 Date Analyzed : 01/10/92

Anamatrix I.D. : SPK010892
 Analyst : CF
 Supervisor : JF
 Date Released : 01/21/92
 Instrument I.D.: HP 23

COMPOUND	SPIKE AMT. (ug/L)	MS (ug/L)	%REC MS	MSD (ug/L)	%REC MSD	RPD	%REC LIMITS
Diesel	1250	1100	88%	1100	88%	0%	36-150

* Limits established by Anamatrix, Inc.

BTEX MATRIX SPIKE REPORT
 EPA METHOD 5030 WITH GC/PID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : P91024-3 P3 WS1A,B,C
 Matrix : WATER
 Date Sampled : 01/08/92
 Date Analyzed : 01/15/92

Anamatrix I.D.: 9201041-02
 Analyst : JY
 Supervisor : JY
 Date Released : 01/23/92
 Instrument ID : HP21

COMPOUND	SPIKE AMT. (ug/L)	MS (ug/L)	REC MS	MSD (ug/L)	REC MSD	RPD	%REC LIMITS
Benzene	10.0	9.8	98%	9.6	96%	-2%	46-149
Toluene	10.0	9.6	96%	9.4	94%	-2%	43-146
Ethylbenzene	10.0	9.5	95%	9.4	94%	-1%	51-138
M+P-Xylenes	6.7	6.4	96%	6.3	94%	-2%	39-161
O-Xylene	3.3	3.2	88%	3.2	97%	0%	37-156
P-BFB			131%		139%		53-147%

* Limits established by Anamatrix, Inc.