

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

StID 4139

September 22, 1995

Mr. Geno Macedo
5470~~2~~ Beaver Ln
Byron, CA 94514

RE: QMR for 1000 North Vasco Rd, Livermore 94550

Dear Mr. Macedo:

I have completed review of H₂OGEOL's August 1995 Soil Sampling, Monitoring Well Installation report for the above referenced site. Groundwater in the vicinity of the former diesel underground storage tank is detecting low levels of diesel contaminant. At this time, a quarter monitoring/sampling schedule should be established for this site. Quarterly monitoring reports (QMRs) are also due within 60 days upon completion of field work. The next sampling event should be in October 1995.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

cc: files



ENVIRONMENTAL
PROTECTION

95 NOV 23 PM 12:07

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502-6577

November 22, 1995

RE: Second consecutive quarter (4th Quarter, 1995) groundwater monitoring at Geno's Country Store, 1000 North Vasco Road, Livermore, California.

Dear Ms. Chu;

This letter report provides the results of the second consecutive quarter (Fourth Quarter, 1995) sampling of the monitoring wells at Geno's Country Store, located at 1000 North Vasco Road in Livermore, California (Figure 1).

Depth to water in each monitoring well was measured to +/- 0.01 feet using a Solinst Model 101 water level meter on November 06, 1995. The depth to water was converted to potentiometric surface elevation by subtracting the measured depths to water from the casing top elevation. This information is presented below.

WELL AND GROUNDWATER ELEVATIONS
NOVEMBER 06, 1995

Well Number	Top of Casing Elevation (feet, msl)	Time of Depth measurement	Depth to Water (feet)	Groundwater Surface Elevation (feet, msl)
MW-1	526.50	09:00	8.75	517.75
MW-2	526.83	08:56	8.35	518.48
MW-3	526.00	08:58	7.96	518.04

The groundwater flow direction (more precisely direction of groundwater gradient, since the horizontal hydraulic conductivity anisotropy is unknown) for the triangle with a well at each apex is N 77° W at a gradient of 0.0072. Figure 2 is a potentiometric surface map showing well locations and groundwater surface contours as measured on November 06, 1995. Historic water level information follows.

Ms. Eva Chu
November 22, 1995
Page 2

MW-1	07/24/95	08:45	8.68	517.82
	11/06/95	09:00	8.75	517.75
MW-2	07/24/95	08:43	8.17	518.66
	11/06/95	08:56	8.35	518.48
MW-3	07/24/95	08:40	7.60	518.40
	11/06/95	08:58	7.96	518.04

GROUNDWATER FLOW DIRECTION AND GRADIENT

07/24/95 N 60° W at a gradient of 0.0065
(note typographic correction of direction from 08/16/95 report)
11/06/95 N 77° W at a gradient of 0.0072

AVERAGE N 68.5° W at a gradient of 0.0069

Following water level measurements the groundwater surface at each monitoring well was checked for free product, observation of sheen, and odor. No free product or sheen was found. Groundwater from monitoring well MW-1 possessed a hydrocarbon odor.

The monitoring wells were purged by pumping with an "ES-60" submersible pump marketed for monitoring well purging by Enviro-Tech Services Co. of Martinez, California. Field measured water quality parameters were measured using a Cambridge Scientific Industries Hydac™ Conductivity Temperature pH Tester. Well purging activities and the field measured water quality parameters are documented in Attachment A. For each well, purging continued until specific conductance stabilized to +/- 5% on consecutive readings.

The purge pump was slowly removed from each well while running to allow a sweeping of the wellbore, preventing significant surging of the wellbore and drainage of the discharge tubing into the well.

Groundwater samples for TPH-D were collected directly from the end of the pump discharge tubing into a one liter amber glass bottle. Groundwater samples for TPH-G plus BTEX were collected using a precleaned Teflon™ bailer suspended from a new nylon twine line. Water samples were transferred, in duplicate, from the bailer to 40-mL glass vials with Teflon™ septum lids using a precleaned Teflon™ peacock type bottom emptying device.

Groundwater sample bottles were labeled and placed in an ice chest with 2 Liter plastic bottles containing ice. Chain-of-Custody forms were filled out and were delivered with the ice chest to Superior Analytical Laboratory, Inc. of Martinez, California, a state certified laboratory.

Groundwater samples from all three monitoring wells were found not to contain detectable concentrations of petroleum hydrocarbons. The laboratory report and Chain-of-Custody documentation is contained in Attachment B. The historic groundwater sample analytical results are summarized below.

All concentrations are expressed in micrograms per liter ($\mu\text{g/L}$).

Well	TPH-D	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1						
07/24/95	910	<50	<0.5	<0.5	<0.5	<0.5
11/06/95	<50	<50	<0.5	<0.5	<0.5	<0.5
MW-2						
07/24/95	<50	<50	<0.5	<0.5	<0.5	<0.5
11/06/95	<50	<50	<0.5	<0.5	<0.5	<0.5
MW-3						
07/24/95	<50	60	<0.5	<0.5	<0.5	<0.5
11/06/95	<50	<50	<0.5	<0.5	<0.5	<0.5

(Note typographic correction of 07/24/95 "ND" values for TPH-G concentrations for MW-1 & -2 from 08/16/95 report).

California*Primary MCL's						
	na	na	1	na	680	1,750
US E.P.A.*Primary MCL's						
	na	na	5	1,000	700	10,000

na - not available

Marshack, Jon B., D. Env. 1991, A Compilation of Water Quality Goals, Central Valley Regional Water Quality Control Board.

Ms. Eva Chu
November 22, 1995
Page 4

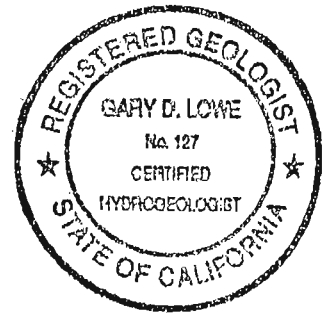
The third consecutive quarter (First Quarter, 1996) sampling event at Geno's Country Store, located at 1000 North Vasco Road in Livermore, California is scheduled for the week of February 05, 1996.

Please do not hesitate to call me at (510) 373-9211 should you have any questions.

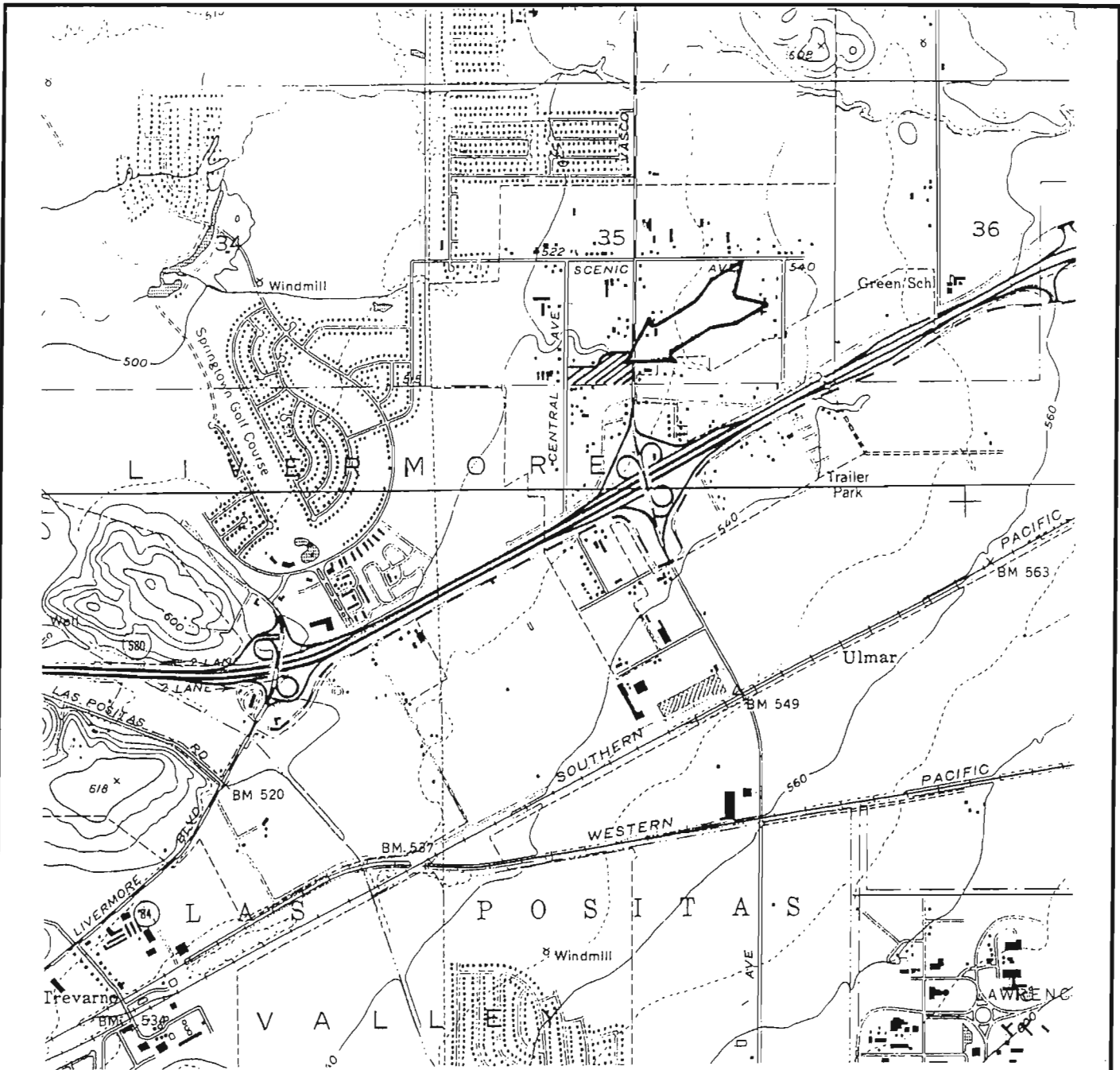
Sincerely,



Gary D. Lowe, R.G., C.E.G., C.H.
Principal, Hydrogeologist
Sole Proprietor



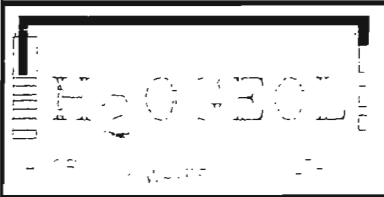
xc: Mr. Geno Macedo, Geno's Country Store, 1000 North Vasco Road,
Livermore, 94550



Base from U.S. Geological Survey Altamont 7.5 Minute Series Topographic Map



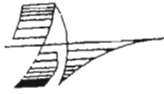
1000 0 1000 2000 3000 4000 5000 FEET



SITE LOCATION MAP
 GENO'S COUNTRY STORE
 1000 NORTH VASCO ROAD
 LIVERMORE, CALIFORNIA

FIGURE

1



SCALE: 1" = 50'

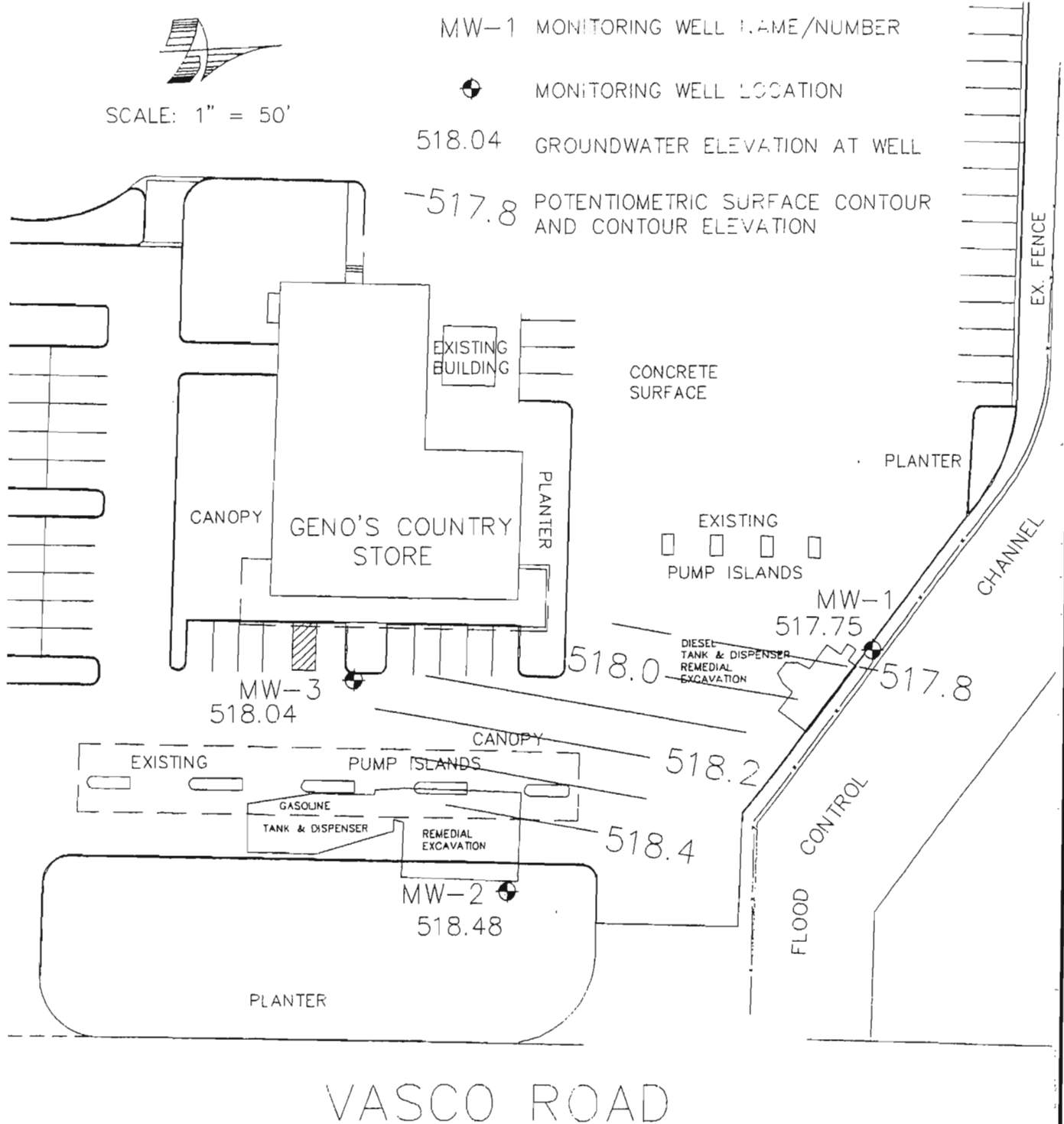
MW-1 MONITORING WELL NAME/NUMBER



MONITORING WELL LOCATION

518.04 GROUNDWATER ELEVATION AT WELL

-517.8 POTENTIOMETRIC SURFACE CONTOUR AND CONTOUR ELEVATION



VASCO ROAD

POTENTIOMETRIC SURFACE MAP FOR 11/06/95

FIGURE

2

H₂OGEOL
A GROUND WATER CONSULTANCY

GENO'S COUNTRY STORE
1000 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA



P.O.Box 2165 ■ Livermore, California 94551 ■ 510-373-9211

ATTACHMENT A

FIELD DATA SHEET
LOG OF WELL SAMPLING ACTIVITIES

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-1 Project Name: Geno's Deli & Shell
1000 North Vasco Road, Livermore, California Date: 11/06/95

Sampled by: G. Lowe Weather Conditions: Clear, 68°F, c. 1 in

Well Location: North end in planter Well Casing Diameter: 2-inch Depth of Well Casing: 15.6 ft

Measuring Point: Top of PVC Casing Initial Depth to Water: 8.75 Final Depth to Water: Not measured

Casing Volume (1 vol / 3 vol): 1.1 / 3.3 Well Borehole Volume: _____

Purging Method: Centrifugal Pump/Peristaltic Pump Sampling Method: Peristaltic Pump
Grundfos Submersible Pump Grundfos Submersible Pump
Centrifugal Pump/ES-60 Submersible ES-60 Submersible Pump
ES-60 Submersible Pump X Teflon Bailor

Purging Rate: See below Total Discharge: 3.6 Casing Volumes Purged: 3.3

Comments: slight fuel odor

Waste Water Disposal: To property ~~sewer~~ soil remediation files

Starting Time: 9:40

Time Pump on: 9:42

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	DR. Factor	S.C. (w/1cm)	Color
11/06/95	9:43	1.3	7.53	66.7	x	=	2.370	46.6 Brown
"	9:45	2.6	7.45	68.8	x	=	2.350	" "
"	9:46	2.8	7.47	69.1	x	=	2.370	" "
"	9:48	3.0	7.44	69.3	x	=	2.370	" "
"	9:53	3.6	7.49	69.0	x	=	2.340	" "
:	:	:	:	:	x	=	:	:
:	:	:	:	:	x	=	:	:
:	:	:	:	:	x	=	:	:
:	:	:	:	:	x	=	:	:
:	:	:	:	:	x	=	:	:

Sample Identification: GENO/MW-1 Sample Time: 9:54

TURBIDITY ANALYSIS

Finishing Time: 9:59 Time Analyzed: _____ NTU Value: _____

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-2 Project Name: Geno's Deli & Shell
1000 North Vasco Road, Livermore, California Date: 11/06/95

Sampled by: G. Lowe Weather Conditions: Clear, 66°F, c. 1 in

Well Location: eastern end of site Well Casing Diameter: 2-inch Depth of Well Casing: 15.76
along Vasco Rd.

Measuring Point: Top of PVC Casing Initial Depth to Water: _____ Final Depth to Water: Not measured

Casing Volume (1 vol / 3 vol): 1.1 / 3.3 Well Borehole Volume: _____

Purging Method: Centrifugal Pump/Peristaltic Pump Sampling Method: Peristaltic Pump
Grundfos Submersible Pump Grundfos Submersible Pump
Centrifugal Pump/ES-60 Submersible ES-60 Submersible Pump
ES-60 Submersible Pump X Teflon Bailor

Purging Rate: See below Total Discharge: 3.4 Casing Volumes Purged: 3.1

Comments: _____

Waste Water Disposal: To property ~~sewer~~ soil remediation files

Starting Time: 8:59

Time Pump on: 9:05

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	DR. Factor	S.C. (w/1cm)	Color
11/06/95	9:10	2.1	7.21	68.4	x	=	2.110	46.6 Brown
"	9:12	2.7	7.26	68.4	x	=	2.430	colorless
"	9:14	3.0	7.30	68.2	x	=	2.450	" "
"	9:16	3.2	7.27	68.4	x	=	2.440	" "
"	9:17	3.3	7.31	68.2	x	=	2.400	" "
"	9:18	3.4	7.32	68.4	x	=	2.420	" "
:	:	:	:	:	x	=	:	:
:	:	:	:	:	x	=	:	:
:	:	:	:	:	x	=	:	:
:	:	:	:	:	x	=	:	:
:	:	:	:	:	x	=	:	:

Sample Identification: GENO/MW-2 Sample Time: 9:20

TURBIDITY ANALYSIS

Finishing Time: 9:24 Time Analyzed: _____ NTU Value: _____

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-3 Project Name: Geno's Deli & Shell Date: 11/08/95
1000 North Vasco Road, Livermore, California

Sampled by: G. Lowe Weather Conditions: clear, calm, 67°F

Well Location: Firm & Stone Well Casing Diameter: 2-inch Depth of Well Casing: 15.05

Measuring Point: Top of PVC Casing Initial Depth to Water: _____ Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 1.1 / 3.3 Well Borehole Volume: _____

Purging Method: Centrifugal Pump/Peristaltic Pump Sampling Method: Peristaltic Pump
Grundfos Submersible Pump Grundfos Submersible Pump
Centrifugal Pump/ES-60 Submersible ES-60 Submersible Pump
ES-60 Submersible Pump X Teflon Bailor

Purging Rate: See below Total Discharge: 3.8 Casing Volumes Purged: 3.5

Comments: _____

Waste Water Disposal: To property ~~sewer~~ soil remediation pit.

Starting Time: 9:24

Time Pump on: 9:26

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	DR. Factor	S.C. (µS/cm)	Color
11/08/95	9:27	1.6	7.15	68.4		x	= 3110	Colorless
"	9:30	2.6	7.15	68.6		x	= 3200	"
"	9:31	3.0	7.21	68.8		x	= 3180	"
"	9:32	3.1	7.18	68.7		x	= 3170	"
"	9:33	3.8	7.22	68.8		x	= 3170	"
	:					x	=	
	:					x	=	
	:					x	=	
	:					x	=	
	:					x	=	
	:					x	=	

Sample Identification: GENO/MW-3 Sample Time: 9:36

TURBIDITY ANALYSIS

Finishing Time: 9:40 Time Analyzed: _____ NTU Value: _____



P.O.Box 2165 ■ Livermore, California 94551 ■ 510-373-9211

ATTACHMENT B

LABORATORY ANALYTICAL RESULTS
AND CHAIN-OF-CUSTODY DOCUMENTATION



Superior

Analytical Laboratory

H2OGEOL A GROUNDWATER CONSULTANCY
P.O. BOX 2165
LIVERMORE, CA 94551

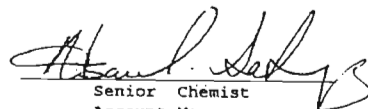
Date: November 15, 1995

Attn: GARY D. LOWE

Laboratory Number : 20454

Project Number/Name : GENO'S DELI AND SHELL

This report has been reviewed and
approved for release.


Senior Chemist
Account Manager



Superior

Analytical Laboratory

H2OGEOL A GROUNDWATER CONSULTANCY
Attn: GARY D. LOWE

Project GENO'S DELI AND SHELL
Reported on November 9, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015H/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 20454

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
GENO/MW-1	11/06/95	11/06/95	11/08/95	11/08/95	BK081.37	01
GENO/MW-2	11/06/95	11/06/95	11/08/95	11/08/95	BK081.37	02
GENO/MW-3	11/06/95	11/06/95	11/08/95	11/08/95	BK081.37	03

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BK081.37-02	Laboratory Spike	LS	Water	11/08/95	11/08/95
BK081.37-06	42-7-8	MS 20446-03	Water	11/08/95	11/08/95
BK081.37-07	42-7-8	MSD 20446-03	Water	11/08/95	11/08/95
BK081.37-01	Method Blank	MB	Water	11/08/95	11/08/95
BK081.37-03	Laboratory Spike	LS	Water	11/08/95	11/08/95
BK081.37-08	42-7-8	MS 20446-03	Water	11/08/95	11/08/95
BK081.37-08	42-7-8	HSD 20446-03	Water	11/08/95	11/08/95



Superior
Analytical Laboratory

220GEOLOGICAL GROUNDWATER CONSULTANCY
Attn: GARY D. LOWE

Project GENO'S DELI AND SHELL
Reported on November 9, 1995

Gasoline Range Petroleum Hydrocarbons and BTEX
by EPA SW-846 5030/8015H/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
20454-01	GENO/HW-1	Water	1.0	-
20454-02	GENO/HW-2	Water	1.0	-
20454-03	GENO/HW-3	Water	1.0	-

RESULTS OF ANALYSIS

Compound	20454-01		20454-02		20454-03	
	Conc. RL	ug/L	Conc. RL	ug/L	Conc. RL	ug/L
Gasoline Range	ND	50	ND	50	ND	50
Benzene	ND	0.5	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	ND	0.5	ND	0.5

>> Surrogate Recoveries (%) <<
Trifluorotoluene (S5) 101

102 103



Superior
Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTEX
by EPA SW-846 5030/8015H/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20454
Method Blank(s)

BK081.37-01
Conc. RL
ug/L

Gasoline Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5

>> Surrogate Recoveries (%) <<
Trifluorotoluene (S5) 101



Superior
Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015H/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20454

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits	RPD %
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For Water Matrix (ug/L)
BK081.37 02 / - Laboratory Control Spikes

Benzene	20	21	105	65-125	
Toluene	20	21	105	65-125	
Ethyl Benzene	20	21	105	65-125	
Total Xylenes	60	59	98	65-125	

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)			101	50-150	
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For Water Matrix (ug/L)
BK081.37 03 / - Laboratory Control Spikes

Gasoline_Range	2000	1900	95	65-135	
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For Water Matrix (ug/L)
BK081.37 06 / 07 - Sample Spiked: 20446 - 03

Benzene	ND	20	20/21	100/105	65-125	5
Toluene	ND	20	20/21	100/105	65-125	5
Ethyl Benzene	ND	20	21/21	105/105	65-125	0
Total Xylenes	ND	60	59/60	98/100	65-125	2

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)			100/104	50-150	
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For Water Matrix (ug/L)
BK081.37 08 / 08 - Sample Spiked: 20446 - 03

Gasoline_Range	ND	2000	1800/1800	90/90	65-135	
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Superior
Analytical Laboratory

Narrative:

Definitions:

ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)



Superior
Analytical Laboratory

H2OGEOL A GROUNDWATER CONSULTANCY
Attn: GARY D. LOWE

Project GENO'S DELI AND SHELL
Reported on November 14, 1995

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Laboratory Number 20454

Chronology

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
GENO/MW-1	11/06/95	11/06/95	11/07/95	11/09/95	BK071.21	01
GENO/MW-2	11/06/95	11/06/95	11/07/95	11/09/95	BK071.21	02
GENO/MW-3	11/06/95	11/06/95	11/07/95	11/09/95	BK071.21	03

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BK071.21-01	Method Blank	MB	Water	11/07/95	11/08/95
BK071.21-02	Laboratory Spike	LS	Water	11/07/95	11/08/95
BK071.21-03	Laboratory Spike Duplicate	LSD	Water	11/07/95	11/08/95



Superior
Analytical Laboratory

H2OGEOL A GROUNDWATER CONSULTANCY
Attn: GARY D. LOWE

Project GENO'S DELI AND SHELL
Reported on November 14, 1995

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
20454-01	GENO/MW-1	Water	1.0	-
20454-02	GENO/MW-2	Water	1.0	-
20454-03	GENO/MW-3	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	20454-01		20454-02		20454-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
Diesel:	ND	50	ND**	50	ND	50
>> Surrogate Recoveries (%) <<						
Tetracosane	80		61		86	



Superior
Analytical Laboratory

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Quality Assurance and Control Data

Laboratory Number: 20454
Method Blank(s)

BK071.21-01
Conc. RL
ug/L

Diesel: ND 50

>> Surrogate Recoveries (%) <<
Tetracosane 108



Superior
Analytical Laboratory

Total Extractable Petroleum Hydrocarbons
by EPA SW-846 Method 8015M

Quality Assurance and Control Data

Laboratory Number: 20454

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
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For Water Matrix (ug/L)
BK071.21 02 / 03 - Laboratory Control Spikes

Diesel:		250	233/205	93/82	50-150	13
---------	--	-----	---------	-------	--------	----

>> Surrogate Recoveries (%) << Tetracosane				69/55	50-150	
-----------------------------------------------	--	--	--	-------	--------	--

** - Hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint.

Definitions:

ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

H₂OCEOL / GROUNDWATER CONSULTANCY

P O BOX 2165
LIVERMORE, CALIFORNIA 94551-2165

CHAIN OF CUSTODY

DATE: 11/06/95 PAGE 1 of 1

Sample Source:
Geno's Deli & Shell
1000 North Vasco Road
Livermore, California

SAMPLER(S): Gary D. Lowe

SAMPLER'S SIGNATURE: *Gary D. Lowe*

ANALYTE

SAMPLE RECEIPT

TOTAL No. of CONTAINERS _____

CHAIN OF CUSTODY SEALS _____

REC'D GOOD CONDITION/COLD _____

CONFORMS TO RECORD _____

LAB NO. _____

SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.	Total Petroleum Hydrocarbons as Diesel (EPA 8015)		Total petroleum Hydrocarbons as Gasolins + BTEX (EPA 8030/8015M + 8020/802)		NUMBER OF CONTAINERS
GENQMW-1	11/08/95	09:54	WATER		X	X			3
GENQMW-2	11/08/95	09:20	WATER		X	X			3
GENQMW-3	11/08/95	09:4	WATER		X	X			3

Please initial:

Samples Stored in ice *g*

Appropriate containers *g*

Samples preserved *g*

VDA's with sufficient space *g*

Comments: */*

FAX RESULTS TO (510) 373-9222

Please note special pricing
per Quotation No. 95-00931
10-Day TAT

RELINQUISHED BY:

SIGNATURE *Gary D. Lowe*

PRINTED NAME Gary D. Lowe

COMPANY H₂OCEOL

DATE 11/06/95

RELINQUISHED BY:

SIGNATURE _____

PRINTED NAME _____

COMPANY _____

DATE _____

RECEIVED BY:

SIGNATURE _____

PRINTED NAME _____

COMPANY _____

RECEIVED BY LABORATORY:

SIGNATURE *R. F. ...*

PRINTED NAME *R. F. ...*

COMPANY Superior Analytical, Inc.

DATE 11/08/95

20454