

GeoStrategies Inc.

QUARTERLY REPORT

Shell Service Station 5251 Hopyard Road Pleasanton, California WIC# 204-6138-0907

GeoStrategies Inc.

Shell Oil Company September 2, 1992 Page 2

Ground-water samples were collected on July 17, and 21, 1992. Samples were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline) and as Diesel (TPH-Diesel) according to EPA Method 8015 (Modified) and for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. The ground-water samples were analyzed by Anametrix, Inc., a California State-certified laboratory located in San Jose, California. The laboratory analytical report and Chain-of-Custody form are presented in Appendix A. A chemical isoconcentration map for benzene is presented on Plate 3. Historical chemical analytical data are presented in Appendix A.

If you have any questions, please call.

Ellen C. fatherened

GeoStrategies Inc. by.

Ellen C. Fostersmith

Geologist

Michael C. Carey Engineering Geologist

C.E.G. 1351

ECF/MCC/rmt

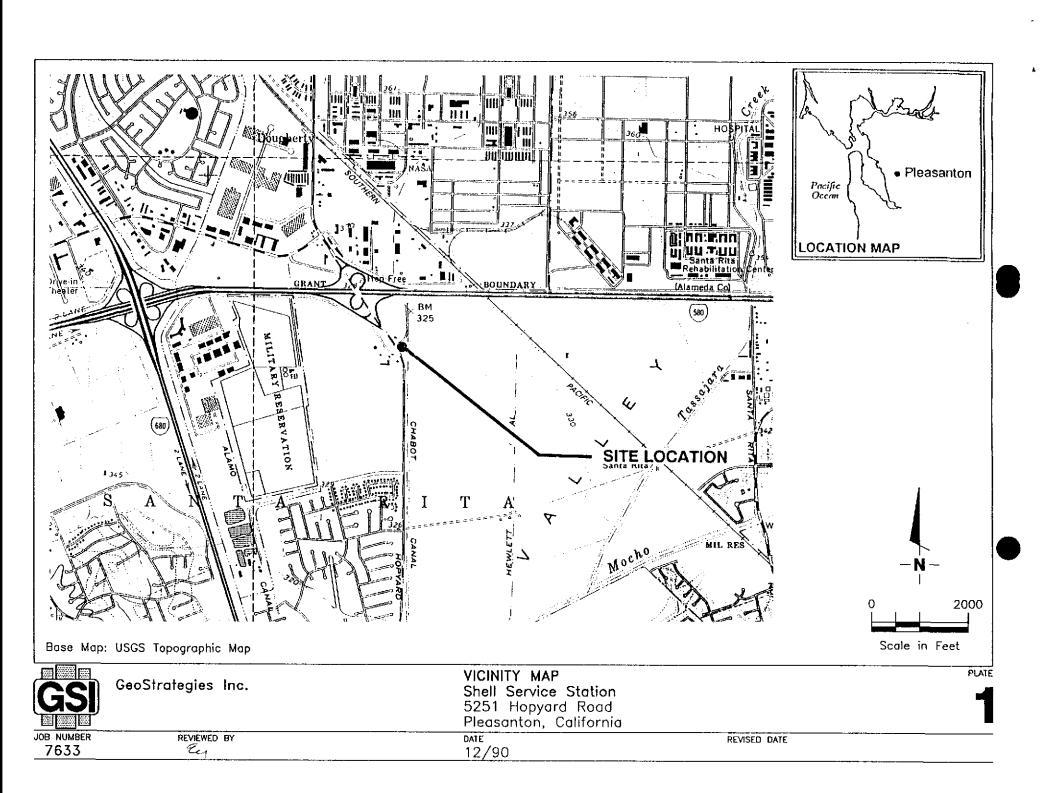
Plate 1. Vicinity Map

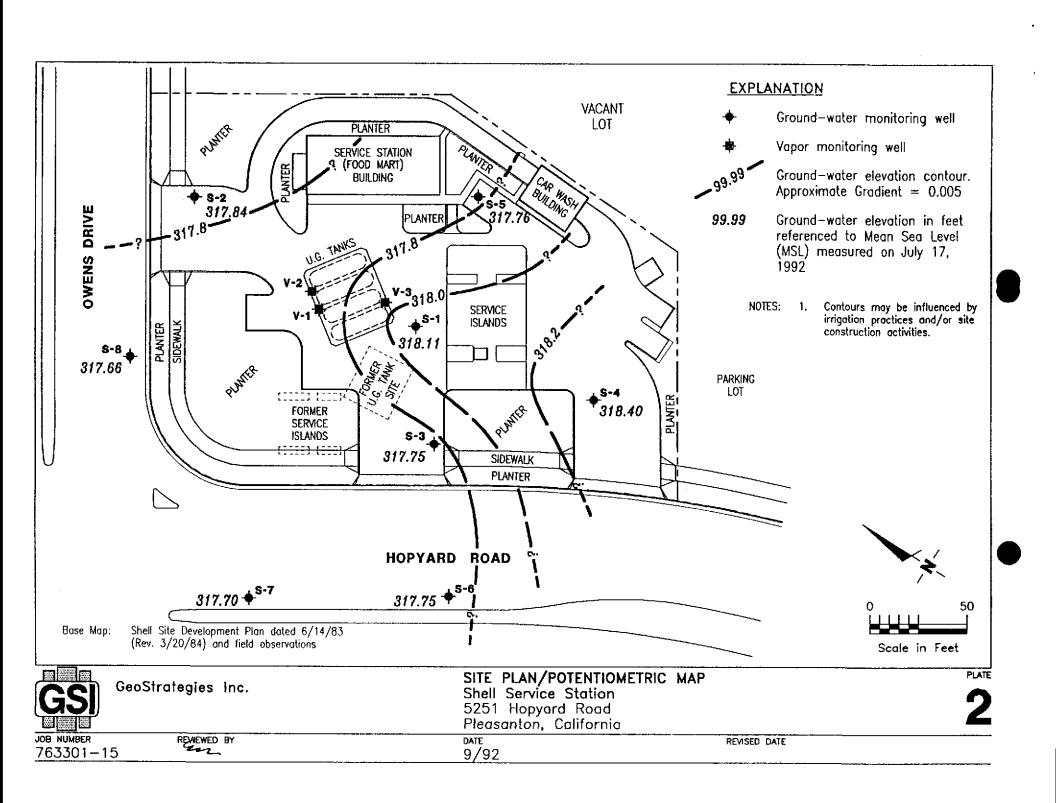
Plate 2. Site Plan/Potentiometric Map

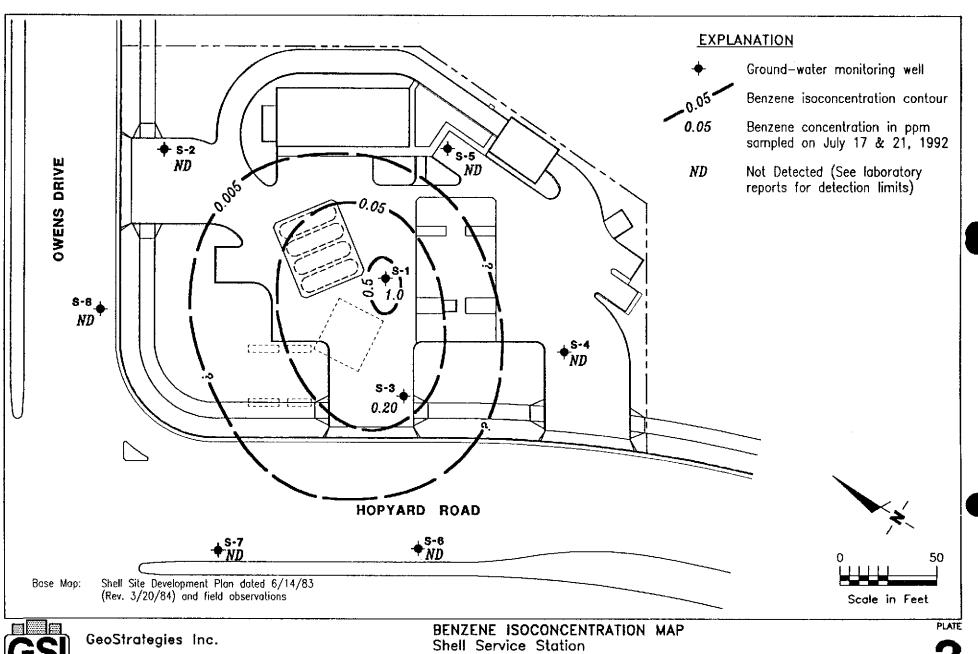
Plate 3. Benzene Isoconcentration Map

Appendix A: EMCON Monitoring Report and Chain-of-Custody

QC Review: _______









5251 Hopyard Road Pleasanton, California

DATE

9/92

JOB NUMBER 763301-15 REVIEWED BY

REVISED DATE



RECEIVED

AUG 17 1992

GeoStrategies Inc.

August 14, 1992 Project: G67-27.01 WIC#: 204-6138-0907

Ms. Ellen Fostersmith Geo Strategies Inc. 2140 West Winton Avenue Hayward, California 94545

Re: Third quarter 1992 ground-water monitoring report, Shell Oil Company, 5251 Hopyard Road, Pleasanton, California

Dear Ms. Fostersmith:

This letter presents the results of the third quarter 1992 ground-water monitoring event for the Shell Oil Company (Shell) site located at 5251 Hopyard Road, Pleasanton, California. Third quarter monitoring was conducted on July 17 and 21, 1992. The site is monitored quarterly.

GROUND-WATER LEVEL SURVEY

A water-level survey preceded the purging and sampling of the monitoring wells. The wells included in the survey are identified in figure 1 (supplied by Geo Strategies Inc.). During the survey, wells S-1 through S-8 were measured for depth to water, floating product thickness, and total depth. Depth to water and floating product thickness were measured to the nearest 0.01 foot with an oil/water interface probe. No floating product was observed in any wells. Total depth was measured to the nearest 0.1 foot. Results of the third quarter water-level survey, and available data from four previous surveys, are summarized in table 1.

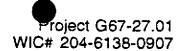
SAMPLING AND ANALYSIS

Ground-water samples were collected from wells S-1 through S-8 on July 17 and 21, 1992. Prior to sample collection, the wells were purged with polyvinyl chloride bailers. During the purging operation, ground water was monitored for pH, electrical conductivity, and temperature as a function of volume of water removed. Purging continued until these parameters were stable and a minimum of three casing volumes of ground water were removed. Wells S-1 and S-6 were evacuated to dryness before three casing volumes were removed. These wells were allowed to recharge for up to 24 hours. Samples were collected after the wells had recharged to a level sufficient for sample collection. Field measurements from third quarter monitoring, and available measurements from four previous monitoring events, are summarized in table 1. Purge water from the monitoring wells was contained in 55-gallon drums.

G672701C.DOC



Ms. Ellen Fostersmin August 14, 1992 Page 2



The drums were identified with Shell-approved labels and secured for on-site storage.

Ground-water samples were collected with a Teflon® bailer, labeled, placed on ice, and transported to Anametrix Inc. for analysis. Shell chain-of-custody documents accompanied all samples to the laboratory.

All equipment that was placed down a well or that came in contact with ground water was steam cleaned with deionized water prior to use at each well.

Quality control samples for third quarter monitoring included a trip blank (called TB), a field blank (called FB), and a duplicate well sample (called SD-2) collected from well S-2. All water samples collected during third quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPH-g); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and total petroleum hydrocarbons as diesel (TPH-d).

ANALYTICAL RESULTS

Analytical results for the third quarter 1992 monitoring event, and available results from four previous monitoring events, are summarized in table 2. The original certified analytical report and final chain-of-custody document are attached.

If you have any questions, please call.

Very truly yours,

EMCON Associates

David Larsen

Environmental Sampling Coordinator

Orrin Childs

Environmental Sampling Supervisor

DL/OC:dl

Attachments: Table 1 - Monitoring well field measurement data

Table 2 - Summary of analytical results Figure 1 - Monitoring well locations

Certified analytical report Chain-of-custody document

Table 1 Monitoring Well Field Measurement Data Third Quarter 1992

Shell Station: 5251 Hopyard Road Pleasanton, California

WIC #: 204-6138-0907

Date: 08/13/92 Project Number: G67-27.01

Well Desig- nation	Water Level Field Date	TOB Elevation	Depth to Water	Ground- water Elevation	Total Well Depth	Floating Product Thickness	Water Sample Field Date	рн	Electrical Conductivity	Tomperature	Turbidity
	•	(ft-MSL)	(feet)	(ft-MSL)	(fest)	(feet)		(std. units)	(micromhas/cm)	(degrees F)	(NTU)
S-1	07/24/91	326.73	10.39	316.34	28.4	NO NO	07/24/91	7 44			
S-1	10/18/91	326.73	8.85	317.88	28.5	ND	10/18/91	7.08	3030	67.9	NR
S-1	01/23/92	326.73	9.42	317.31	28.5	HO		7.04	2270	70.4	NR
S-1	04/27/92	326 73	9.21	317.52	30.0	ND ND	01/23/92	7.48	3320	52.1	>200
S-1	07/17/92	328,73	8.62	318.11	30.0	ND	04/27/92	7.49	3080	66.2	>1000
			-,	0,0,11	30.0	NU	07/21/92	7.71	3120	76.3	>200
S-2	07/24/91	326.59	9.10	317.49	24.6	Ma	07/04/04				
8-2	10/18/91	326.59	8.83	317.76	24.6	ND	07/24/91	7.31	4090	64.2	NR
S-2	01/23/92	326.59	9.49	317.10	24.5	NO	10/18/91	7.43	3280	66.4	NR
S-2	04/27/92	326.59	9.23	317.36	24.6	ND	01/23/92	7.21	4530	53.8	>200
S-2	07/17/92	326.59	8.75	317.84	24.7	ND	04/27/92	7.30	4500	58.4	510
		30100	0.,0	317.04	24.7	Ю	07/17/92	7.29	4840	68.0	>200
s-3	07/24/91	327.38	9.92	317,46	24.8	NO	07/24/91	7 11			
S-3	10/18/91	327.38	9.64	317.74	24.9	ND	10/18/91	7.11	3150	66.5	NR
S-3	01/23/92	327.38	9.86	317.52	25.0	ND	01/23/92	7.20	2520	68.2	NR
S-3	04/27/92	327,38	10.05	317.33	24.8	םא מא	04/27/92	7.15	3370	51.8	>200
5-3	07/17/92	327.38	9.63	317.75	24.9	ND	07/17/92	7 . 25	2870	68.0	>1000
					27.5	NU	0//1//92	7.07	3380	69.1	>200
S-4	07/24/91	327.38	9.10	318.28	24.4	ND	07/24/91	7 57	1.400		
5-4	10/18/91	327.38	8.82	318.56	24.5	ND	10/18/91	7.52	1400	67.4	MR
5-4	01/23/92	327.38	10.05	317.33	24.5	ND	01/23/92	7.86	1228	71.8	HR
5-4	04/27/92	327.38	9.92	317.46	24.5	ND	04/27/92	7.56	1847	53.1	>200
S-4	07/17/92	327,38	8.98	318.40	24.6	ND	07/17/92	7.64	1927	70.0	>1000
				-1-11	47.0	ND	0//1//92	7.58	1876	70.1	>200

TOB = top of well box

ft-MSL = elevation in feet, relative to mean sea level

std. units = standard pH units

micromhos/cm = micromhos per centimeter

degrees F = degrees Fahrenheit

NTU = nephelometric turbidity units

NO = None detected

NR = Not reported; data not available

Table 1 Monitoring Well Field Measurement Data Third Quarter 1992

Shell Station: 5251 Hopyard Road Pleasanton, California

WIC #: 204-6138-0907

Date: 08/13/92 Project Number: G67-27.01

Well Desig- nation	Water Level Field Date	TOB Elevation	Depth to Water	Ground- water Elevation	Total Well Depth	Ficating Product Thickness	Water Sample Field Date	pН	Electrical Conductivity	Temperature	Turbidity
		(ft-MSL)	(feet)	(ft-MSL)	(feet)	(feet)		(std. units)	(micromhos/cm)	(degrees F)	(טזא)
S-5	07/24/91	327,75	10.15	317.61	24.8	אס	07/24/04				
5-5	10/18/91	327.76	10.00	317.76	24.7		07/24/91	7.95	1455	64.4	NR
S-5	01/23/92	327.76	10.63	317.13	24.5	ND	10/18/91	7.56	1179	65.5	NR
S-5	04/27/92	327.76	10.35	317.41	24.5	ND	01/23/92	7.12	1684	55. 8	>200
S-5	07/17/92	327.76	10.00	317.76		ND	04/27/92	7.49	1395	68.7	>1000
	*******	027,70	10.00	317.70	24.9	HD	07/17/92	7.02	1678	67.1	>200
S-6	07/24/91	326.56	8.93	317.63	25.4		07/04/04				
S-5	10/18/91	326.56	8.84	317.72		ND	07/24/91	7.85	1172	68.4	MR
5-6	01/23/92	326.56	9.43	317.13	26.1	ND	10/18/91	7.62	941	70.3	NR
S-6	04/27/92	326.56	9.07	317.13	26.0	ND	01/23/92	7.78	1690	58.6	>200
S-6	07/17/92	326,56	8.81		26.1	ND	04/27/92	7.78	895	70.1	>1000
	VII. 11.02	320.50	0.01	317.75	26.1	ND	07/17/92	7.44	1610	72.9	>200
S-7	07/24/91	326.49	9.14	317.35	25.4			_			
S-7	10/18/91	326.49	8.92	317.57	25.4 25.4	ND	07/24/91	7.38	2830	58.9	NR
S-7	01/23/92	326.49	9.26	317.23	20.4	MD	10/18/91	7.26	2870	70.5	HR
S-7	04/27/92	326.49	9.11	317.38	25.5	ND	01/23/92	7.05	9400	52.0	>200
s - 7	07/17/92	326.49	8.79	317.70	25.4	ND	04/27/92	7.23	6900	72.8	>1000
	**********	020,70	0.75	317.70	25.4	ND	07/17/92	7.44	3260	72.0	>200
S-8	07/24/91	325.32	7.87	317.45	25.2	ND	07/04/01				
5-8	10/18/91	325.32	7.62	317.70	25.3		07/24/91	7.17	6110	68.2	NR
S-8	01/23/92	325.32	8.23	317.09	25.0	ND	10/18/91	7.40	4880	68.0	MR
5-8	04/27/92	325.32	7.97	317.35	25.0	ND	01/23/92	7.06	6810	55.3	>200
S-8	07/17/92	325.32	7.66			NO	04/27/92	7.04	5940	71.2	>1000
_ -	2.7.17.02	565,02	1.00	317.66	25.3	NO	07/21/92	7.12	5880	67.0	>200

TOB = top of well box

ft-MSL = elevation in feet, relative to mean sea level

std. units = standard pH units

micromhos/cm = micromhos per centimeter

degrees F = degrees Fahrenheit

NTU = nephelometric turbidity units

NO = None detected

NR = Not reported; data not available

Table 2 Summary of Analytical Results Third Quarter 1992 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 5251 Hopyard Road

Pleasanton, California WIC #: 204-8138-0907 Date: 08/13/92 Project Number: G67-27.01

Sampla Desig- nation	Water Sample Field Date	TPH-g	Benzene	Tolvene	Ethyl- benzene	Total Xylenes	TPH-d	
		(mg/t)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
- 1	07/24/91	8.8	2.3	0.03	0.64	0.00		
-1	10/18/91	12.	3.6	0.03		0.22	3.8*	
-1	01/23/92	1.6	0.45	0.003	0.99	0.58	3.3*	
-1	04/27/92	1.1+	0.51	<0.003	0.12	0.017	0.89*	
-1	07/21/92	5.1	1.9		0.11	0.01	0.50*	
-		3. ,	1,5	0.054	0.43	0.14	0.298	
- 2	07/24/91	<0.05	<0.0005	<0.0005	<0.0005	A 000c		
2	10/18/91	<0.05	<0.0005	<0.0005	<0.0005 <0.0005	<0.0005	<0.05	
2	01/23/92	<0.05	<0.0005	<0.0005		<0.0005	<0.05	
2	04/27/92	<0.05	<0.0005	<0.0005 <0.0005	<0.0005	<0.0005	<0.05	
- 2	07/17/92	<0.05	<0.0005		<0.0005	<0.0005	<0.05	
~	51711752	70,03	<0.0000	<0.0005	<0.0005	0.0005	<0.05	
0 - 2	07/17/92	<0.05	<0.0005	0.0005	<0.0005	0.0011	0.094	
- 3	07/24/91	1.7	. 0.45	0.0044	0.15	0.0029		
-3	10/18/91	1.9	0.37	0.0031	0.13	0.0029	1.2*	
-3	01/23/92	2.0	0.58	0.003	0.20	<0.002	0.5	
- 3	04/27/92	1.1+	0.15	<0.003	0.20	<0.002 0.014	0.65*	
- 3	07/17/92	0.81	0.20	<0.0025	0.078		0.23*	
			0.20	/U.UU63	0,031	0.0038	0.058	
- 4	07/24/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	-0.00	
4	10/18/91	<0.05	<0.0005	<0.0005	<0.0005		<0.05	
-4	01/23/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	
- 4	04/27/92	<0.05	<0.0005	<0.0005	<0.0005 <0.0005	<0.0005	<0.05	
i - 4	07/17/92	<0.05	<0.0005			<0.00005	<0.05	
-		10,03	<0.000a	<0.0005	<0.0005	<0.0005	0.074	

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

^{* =} Compounds detected and calculated as diesel appear to be the less voiatile constituents of gasoline

^{+ =} The chromatographic pattern of the purgeable hydrocarbons found in the sample is similar to the pattern of weathered gasoline a = Concentration reported as diesel is primarily due to the presence of a lighter patroleum product, possibly gasoline or kerosene

Table 2 Summary of Analytical Results Third Quarter 1992 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 5251 Hopyard Road

Pleasanton, California WIC #: 204-6138-0907

Date: 08/13/92 Project Number: G87-27.01

Sample Desig-	Water Sample Field				EALI				
ation	Date	TPH-g	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-d		
·		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)		
-5	07/24/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05		
-5	10/18/91	0.12^	0.043	<0.0005	0.001	0.0007	<0.05		
-5	01/23/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0007			
-5	04/27/92	<0.05	<0.0005	<0.0005	<0.0005	0.0006	<0.05		
-5	07/17/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05		
					<0.0000	₹ ₩.₩₩	0.070		
-6	07/24/91	<0.05	<0.0005	<0.0005	<0.0005	0.0005	.a. ec		
-6	10/18/91	<0.05	<0.0005	<0.0005	<0.0005	D.0005	<0.05		
-6	01/23/92	<0.05	<0.0005	<0.0005	<0.0005		<0.05		
-6	04/27/92	<0.05	<0.0005	<0.0005	<0.0005 <0.0005	<0.0005 <0.0005	<0.05		
-6	07/17/92	0.40	<0.0005	<0.0005	<0.0005		<0.05		
		.,,,		40.000	40.0005	<0.0005	0.13		
-7	07/24/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	.0 AF		
-7	10/18/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05		
-7	01/23/92	<0.05	. <0.0005	<0.0005	<0.0005		0.148		
-7	04/27/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05		
-7	07/17/92	<0.05	<0.0005	0.0018	0.0005	<0.0005	<0.05	•	
			70.000	0.0010	0.0000	0.0041	<0.05		
-8	07/24/91	<0.05	<0.0005	<0.0005	<0.0005	-A noor	0.00		
-8	10/18/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05		
-8	01/23/92	<0.05	<0.0005	<0.0005	<0.0005 <0.0005	<0.0005	0.368		
- 8	04/27/92	<0.05	<0.0005	<0.0005		<0.0005	0.09		
-8	07/21/92	0.053	<0.0005	0.0010	<0.0005	<0.0005	<0.05		
		0.033	* 0.0000	0.0010	<0.0005	0.0018	<0.05		
8	07/21/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05		

TPH-g = total patroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

A = Compounds detected and calculated as gasoline are not characteristic of the standard gasoline chromatographic pattern & = Compounds detected and calculated as diesel are not characteristic of the standard diesel chromatographic pattern

Table 2 Summary of Analytical Results Third Quarter 1992 milligrams per liter (mg/l) or parts per million (ppm)

Shall Station: 5251 Hopyard Road

Pleasanton, California

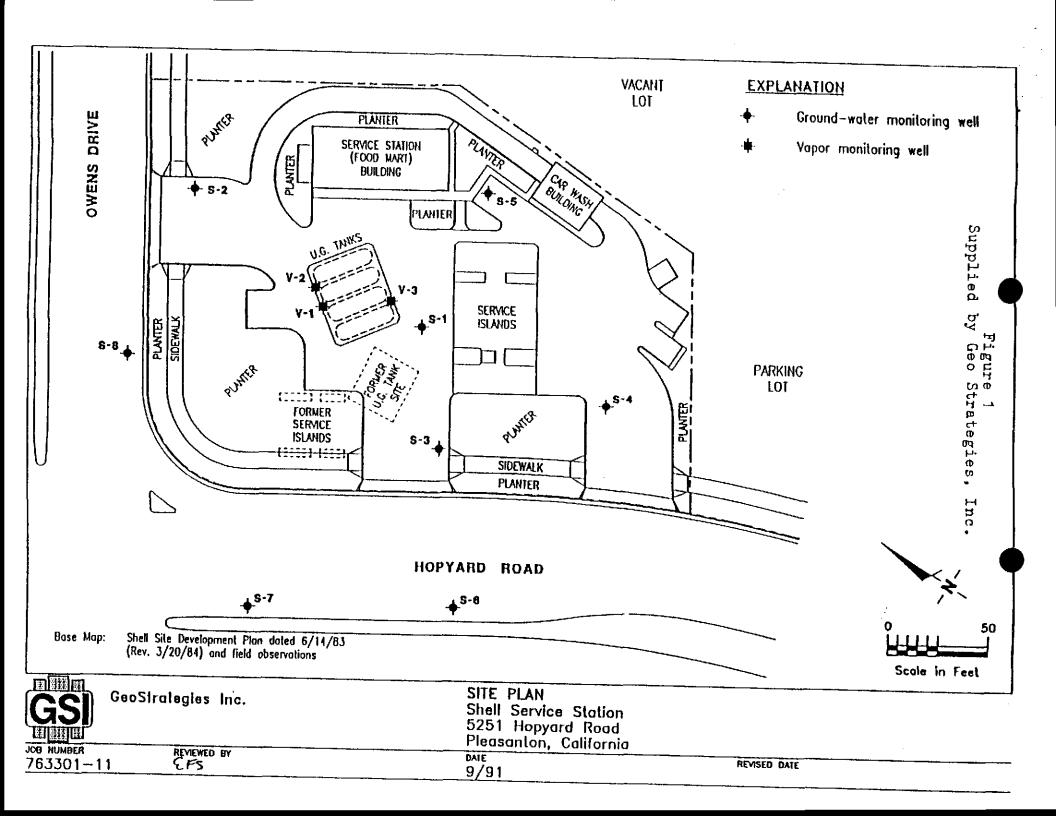
WIC #: 204-6138-0907

Date: 08/13/92 Project Number: G67-27.01

Sample Desig- nation	Water Sample Field Date	TPH-g	Benzene	foluene	Ethyl. benzene	Total Xylenes	TPH-d	
		(mg/l)	(mg/l)	(mg/l)	(mg/t)	(mg/l)	(mg/l)	
TB TB TB	01/25/91 01/23/92 04/27/92 07/21/92	<0.05 <0.05 <0.05 <0.05	<0.0005 <0.0005 <0.0005 <0.0005	<0.0005 <0.0005 <0.0005 <0.0005	<0.0005 <0.0005 <0.0005 <0.0005	<0.0005 <0.0005 <0.0005 <0.0005	<0.05 0.60# <0.05 <0.05	

TPH-g = total petroleum hydrocarbons as gasoline TPH-d = total petroleum hydrocarbons as diesel

^{# =} Positive result for diesel in the TB was confirmed with the laboratory: no explanation was given by the laboratory



ANAMETRIX INC

Environmental & Analytical Chemistry 1961 Concourse Drive, Suite E, San Jose, CA 95131 (408) 432-8192 • Fax (408) 432-8198



MR. DAVID LARSEN EMCON ASSOCIATES 1938 JUNCTION AVE. SAN JOSE, CA 95131 Workorder # : 9207237
Date Received : 07/21/92

Project ID : 204-6138-0907

Purchase Order: MOH-B813

The following samples were received at Anametrix, Inc. for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9207237- 1	S-2
9207237- 2	S-4
9207237- 3	S-5
9207237- 4	S-6
9207237- 5	S-7
9207237- 6	S-8
9207237- 7	S-3
9207237- 8	S-1
9207237- 9	SD-2
9207237-10	TB
9207237-10	FB

This report consists of 7 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.

Laboratory Director

8-07-92

Date

EMCON ASSOCIATES

AUG 1 0 1992

RECEIVED

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

Anametrix W.O.: 9207237
Matrix : WATER

Project Number : 204-6138-0907 Date Released : 08/06/92

Matrix : WATER
Date Sampled : 07/17/92

	Reporting Limit	Sample I.D.# S-2	Sample I.D.# S-4	Sample I.D.# S-5	Sample I.D.# S-6	Sample I.D.# S-7
COMPOUNDS	(mg/L)	-01	-02	-03	-04	-05
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline % Surrogate Reco		ND ND ND 0.0005 ND 90% HP21	ND ND ND ND ND ND	ND ND ND ND ND 97% HP21	ND ND ND ND 0.40 94% HP21	ND 0.0018 0.0006 0.0041 ND 73% HP21
Date Analyzed RLMF		07/30/92	07/30/92 1	07/30/92	07/30/92	07/31/92 1

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

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

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.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Analyst Date

Cheryl Belmer 8/10/92 Supervisor Date

RESULTS - TPH - PAGE 4

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

Anametrix W.O.: 9207237

Project Number : 204-6138-0907

Matrix : WATER
Date Sampled : 07/17/92

Date Released : 08/06/92

	Reporting Limit	Sample I.D.# S-8	Sample I.D.# S-3	Sample I.D.# S-1	Sample I.D.# SD-2	Sample I.D.# TB
COMPOUNDS	(mg/L)	-06	-07	-08	-09	-10
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline * Surrogate Reco Instrument I.I Date Analyzed RLMF		ND 0.0010 ND 0.0018 0.053 89% HP21 07/31/92	0.20 ND 0.057 0.0038 0.81 95% HP21 07/31/92	1.9 0.054 0.43 0.14 5.1 102% HP21 07/31/92	ND 0.0005 ND 0.0011 ND 99% HP21 07/31/92	ND ND ND ND ND 100% HP21 07/31/92

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

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

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.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Analyst Date

Olene Bilmer 8/6/92 Supervisor Date

RESULTS - TPH - PAGE 5

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

Anametrix W.O.: 9207237

Project Number: 204-6138-0907

Matrix : WATER
Date Sampled : 07/17/92

Date Released : 08/06/92

	Reporting Limit	Sample I.D.# FB	Sample I.D.# BL3001E2	Sample I.D.# BL3101E2	
COMPOUNDS	(mg/L)	-11	BLANK	BLANK	
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	0.0005 0.0005 0.0005 0.0005 0.050	ND ND ND ND ND	ND ND ND ND	ND ND ND ND ND	
<pre>% Surrogate Reco Instrument I.I Date Analyzed RLMF</pre>		107% HP21 07/31/92 1	93% HP21 07/30/92	92% HP21 07/31/92 1	

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

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

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.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Analyst . 6 A. 92

Charl Balma 8/6/5>
Supervisor Date

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

Project Number : 204-6138-0907 Date Released : 08/06/92 Anametrix W.O.: 9207237

Matrix : WATER

Date Sampled : 07/17-21/92 Instrument I.D.: HP23 Date Extracted: 07/24/92

Reporting Amount Anametrix Date Limit. Found

I.D.	Client I.D.	Analyzed	(mg/L)	(mg/L)
9207237-01	S-2	07/28/92	0.050	ND
9207237-02	S-4	07/28/92	0.050	0.074
9207237-03	S-5	07/28/92	0.050	0.070
9207237-04	S - 6	07/28/92	0.050	0.13
9207237-05	S-7	07/28/92	0.050	ND
9207237-06	S-8	07/28/92	0.050	ND
9207237-07	S − 3	07/28/92	0.050	0.058
9207237-08	S-1	07/28/92	0.050	0.29
9207237-09	SD-2	07/28/92	0.050	0.094
9207237-10	TB	07/28/92	0.050	ND
9207237-11	FB	07/28/92	0.050	ND
DWBL072492	METHOD BLANK	07/27/92	0.050	ND
		• •		

Note: Reporting limit is obtained by multiplying the dilution factor times 0.050 mg/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.

RESULTS - TPH - PAGE 7

Site Address:	SZSI HOPY	MEN	ALE	NOIN	EERINO	- W	EST	Γ	10/10) (18)	 S	crial	No.;	 کان	26	1 1/1	14:20M	Date: 7 17 95
'	Pleasanton	~	√cεις Λ_	42	107237		1	Ana	ilvs	is R	lea:	uire	 d						Page / of 2
** 1 ** N *		•					, 	T	,. T	, , , , , , , , , , , , , , , , , , ,	1—-	T	u 	····		LA	B:	Anometry	
Shell Engineer:	204-6138. Dan Kir	- 091	O / Phone !	No (E1D)									1	CIIE	CK O	NE(I) BOX ONLY CT/DT	TURN AROUND
Kurt Miller					=										Qua	ttaly	Monii	loring XXX 5461	24 hours ["]
Consultant Name & Ac	idren:		Fax #: (}										tigatic	²⁰ [] 5441	46 hours [7]
EMCON Assoc	. ;	טנעו San	Jose Jose	C 1 1 5	n Ave. 95131								İ				isposa	¹ [] 5442	15 days X X X (No.
Consultant Contact:			Phone I			·	Î		g								dispo	LJ - ''- I	
David Larse			Fax #:	453-1	400 <i>)</i> 2269	B	ヿゔ゙		8240)					•				OAM [] 5452	Other []
Comments: 3-	VOAGCHCI) for Liter Glass	v G.	BIV-X	· · · ·		Neg Neg	Mod	8020/602)	EPA F						Wat Othe	er Sw T	nple -		NOTE: Notify Lancon as possible to 24/48 hr T.
Sampled By: Leving	Perchildose		(SV 6	લાલ્ફ્રસ	-\- <u>-</u> -	8015	8015		Volatile Organics	Disposal					4	Used	Z		
Printed Name: KEVIN	RECHELDERTER					Ð.	(EPA		Ö	Ä					r Size	22))	MATERIAL	SAMPLI
Sample ID	Date	Soil	Walci	Air	No. of	田田	PHO	BTEX (EPA	litzi)	si fa					Containe	Preparation	Composite	DESCRIPTION	COMPLIE
D S-Z	7-17-92					<u> </u>	<u> </u>	 	-	-	-					£	J		
D5-4			<u> X</u>	 -	5	X	$\frac{1}{\lambda}$	X	_	<u> </u>					40 ml	HC	. No	Z VCAS	-
35-5					5	\times	$\overline{\lambda}$	X		ļ							1-11	2 vons	
					5	X	X	X								-	╢┼	Bubbles ZvoHS	
D 5-6		1			5	Х	X	V	·	 	-				-	-	-	Bubbles	
BS-7							<u> </u>		╢—	┨—								l VoA Bubblos	
<u>ي</u> 5-8	7-21-92			ļ	5	$\frac{1}{\lambda}$	X	<u>X</u>	_								Π		
<u>35-3</u>	7-17-92		 		5	X	X	X									17		
\$ 5-11					5	X	X	χ							1	+	1	ZUCHS	
Reliefquished By Asigna	7-21-92	- 	4		5	χ	Χ	X							1	\forall	1	Bubbles	
- tever freic	holder !	KEV	od name:	: ETCH ec	LDERFER	Date			Re	celvo	d (sig	uatur.	l c);			· <u>·</u>	\ <u>\</u>	ed name:	
Reliniuished By (sign	lul deser	! Printe	od name:			Time Date					_						1 12571	ed name:	Date:
Relinquished By (sign		Print	d name:	(CHE	DERFER	Time	: 13		-			naturo					Print	ed name;	Time: Date:
			- neilic;			Date		_	Res	clyta	(ele	nature	(I)	1.	//		Pilni	ed name:	Time:
Last Revision Date: 10/	TIELA!	BORA	TORY	MUST	PROVIDE	A C	OPY	ŌF		<i>LLL</i> S CII	<i>CLL</i> IAIN		<u>/</u> X	eu	Ųa.	اً بيك	mi	ed name: Chek D. Aguila ICE AND RESULTS	Detc: 1/2/2
							—· •-					-Ur-	r.v3	រប់ព	ĭ Wi	iii ii	NVO	ICE AND RESULTS	1300

Ch. A.I.I.	PRIANIUM	MEN	IALE	NOIN	EERING	- W	'EST	r I	10/21	D (19	\tilde{G}	S.	orial	L L	,		- EXA.	M.507M	Wate: +177
Site Address: 5	251 Hopya	rd	Road	9	V-101-1	Τ.		 -	•			——————————————————————————————————————	-1164	118.;	=	56		- h7:5070	Page 2 of2
IWICE.			14	42	01231			a	llys	is R	equi	red	l			LA	B:	Anametrix	
204	-6138-09	07		_								T						BOX ONLY CIAT	
Shell Engineer: D. Karrt Miller	an kirk		Phone !	Vo. (510)	1									Ou	rierly	Monit		
Consultant Name & Addre			Fax #: (585-	3853								ļ		1		ligatio		, , ,
į	•	193B	June	tio	n Ave.								l		ı		sposal	(.) - ****	48 hours 📋
EMCON Assoc. Consultant Contact:		San	Jose	, CA	95131										•		dispos	(15 days X X X (24)
			Phone !	Yo. (408)	ัฐ	18		8240)			j	İ					(1)	Other []
David Larsen Comments:	2269	S.	Ā	2										•==	MOTE N. 11				
See	2 Page)					18	8015 Mod. Diezel)	8020/602)	A E						Othe		upre - :		soon as possible;
,	J					15.	2	8		 7			ı			<u> </u>	Τ	L L	24/48 hr 7.
Sampled By: How f	Zichil de Le					8015		A	A	<u>B</u> .					8	B	N.	İ]
Printed Name: KEVIN R	EICHELDERFE	e				(F)	Ϋ́ Pi	固	Ö	Ä		1	-		r Siz) N	>- H	MATERIAL	SAMPLE
Sample ID	Date	Soil	Walcz	τίΛ	No of	TPH (TPH (EPA	BTEX (EPA	Volatile Organics	Test for Disposal			- [_	Container Size	Preparation Used	Composite	DESCRIPTION	CONDITIO
			778121		No. of conts.	F	片	m	8				1		Con	£	1 🖔		COMME
95D-2	7-17-92		X	Ì	5	X	X	X							40		 -		
(D) TB					Of TH		 									HÇ:	No		
DFB			1		1 2 1	Δ	<u> X</u>	X	-	.				_	1			Bubbles	
A. 1. 12	- V	<u> </u>	4		郊 4	X	X	\times							T	र्व	4	2 VCAS	
															<u> </u>		-	Bubbles	
						1-			 		-	-					.		
-		 	·	 -	<u> </u>		_	_	_		i_	_ [1						
		<u> </u>		<u> </u>			ļ										 		
								1				-[-	-				 -		
						-	_	-			-	_	.						
Relinquished By (signature	19/2	Print	ed name:	!	l			_				_ _							
Relinghished By (algustur	outer 1	Kε	WN 1	REICH	ELDERGER	Date Time	: Tá	10 42 100	Re	ceived	(sign	ature) :				Printe	d name:	Date:
1 town Stoi	childosen				ELDERFA				Rec	cived	(signi	ibue	<u></u>				Pol-		Time:
Relinquished By (algustur			cu nıme:															d name:	Date:
	THE	DOR 4	3Y32	• • • • • • • • • • • • • • • • • • •		Time	; ;		l net	//u	(signa	inte)	ر. آرا	Į.,	.1/	7	Printe	d name: CHELL D. Aguil CE AND RESULTS	Time:
Last Revision Date: 10/15/	;; <u>ing rV</u>	DUKA	IURY	MUST	PROVIDE	A C	OPY	OF	ΠÍÏ	s cii	VIN-	بــديـ DF:(ZUS	TOD TOD	uuu Ywi	S.J.	MAN	chele. D. Aguil	OR Time: 150
		•									* ***			•	*****		A A A A I	ce vun Kizili 12	