

2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

September 23, 1992

Mr. Gil Wistar County of Alameda Department of Environmental Health Hazardous Materials Division 80 Swan Way, Room 200 Oakland, California 94621

Reference:

Shell Service Station 999 San Pablo Avenue Albany, California WIC# 204-0079-0109

Mr. Wistar:

As requested by Mr. Dan Kirk of Shell Oil Company, we are forwarding a copy of the September 23, 1992 Quarterly Report for the above referenced location. The report presents the results of the ground-water sampling conducted during the third quarter of 1992.

If you have any questions, please call.

Eller Jasterement

Sincerely,

Ellen Fostersmith

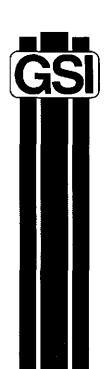
Geologist

EF/shl

cc:

Mr. Dan Kirk, Shell Oil Company

Mr. Lester Feldman, Regional Water Quality Control Board



QUARTERLY REPORT

Shell Service Station 999 San Pablo Avenue Albany, California WIC# 204-0079-0109



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

September 23, 1992

Shell Oil Company P.O. Box 5278 Concord, California

Attn:

Mr. Dan Kirk

Re:

QUARTERLY REPORT Shell Service Station 999 San Pablo Avenue Albany, California WIC# 204-0079-0109

Mr. Kirk:

This Quarterly Report has been prepared by GeoStrategies Inc. (GSI) and presents the results of the 1992 third quarter sampling for the above referenced site (Plate 1). Sampling data were furnished by the Shell Oil Company sampling contractor.

There are currently seven monitoring wells at the site; Wells S-1 through S-7 (Plate 2). These wells were installed in 1990.

CURRENT QUARTER SAMPLING RESULTS

Depth to water-level measurements were obtained in each monitoring well on August 6, 1992. Static ground-water levels were measured from the surveyed top of each well box and recorded to the nearest ± 0.01 foot. Water-level elevations, referenced to Mean Sea Level (MSL) datum and the stabilized values of measured physical parameters are presented in the EMCON Monitoring Report (Appendix A). Water-level data were used to construct a quarterly potentiometric map (Plate 2). Shallow ground-water flow is to the south and west at an approximate hydraulic gradient of 0.05.

Each well was checked for the presence of floating product. Floating product was observed in Well S-5 at a measured thickness of 3.80 feet.

Shell Oil Company September 23, 1992 Page 2

Ground-water samples were collected on July 29, 1992. Samples were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline), 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. These data are summarized and included with the historical chemical analytical data presented in Appendix A. A chemical isoconcentration map for benzene is presented on Plate 3.

If you have any questions, please call.

GeoStrategies Inc. by,

Ellen C. Fostersmith

Geologist

Michael C. Carey Engineering Geologist

C.E.G. 1351

Michael

ECF/MCC/rmt

Plate 1. Vicinity Map

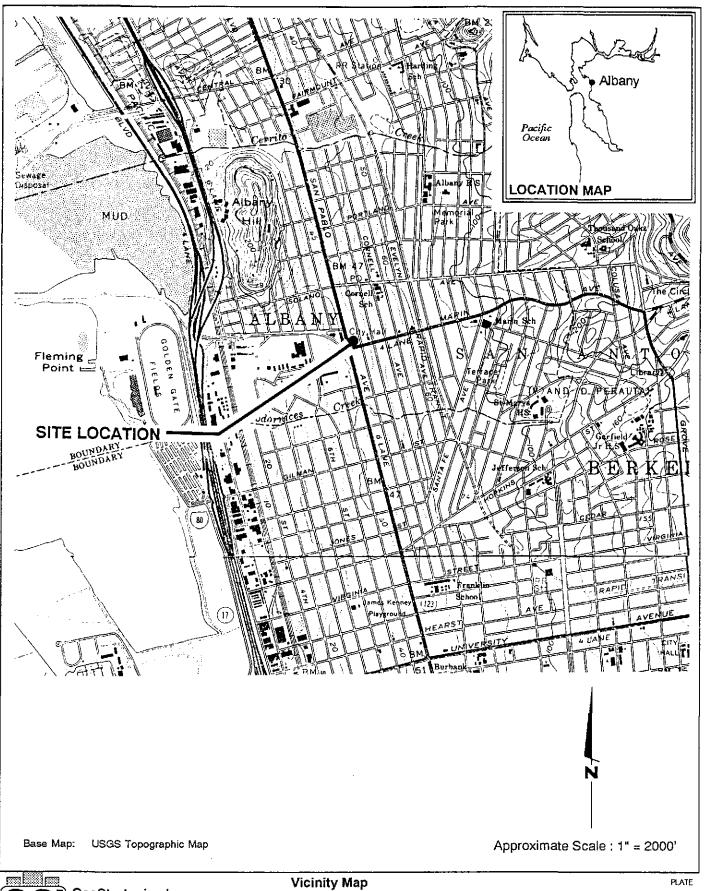
Plate 2. Site Plan/Potentiometric Map

Plate 3. Benzene Isoconcentration Map

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

C.E.G. 1351

QC Review _



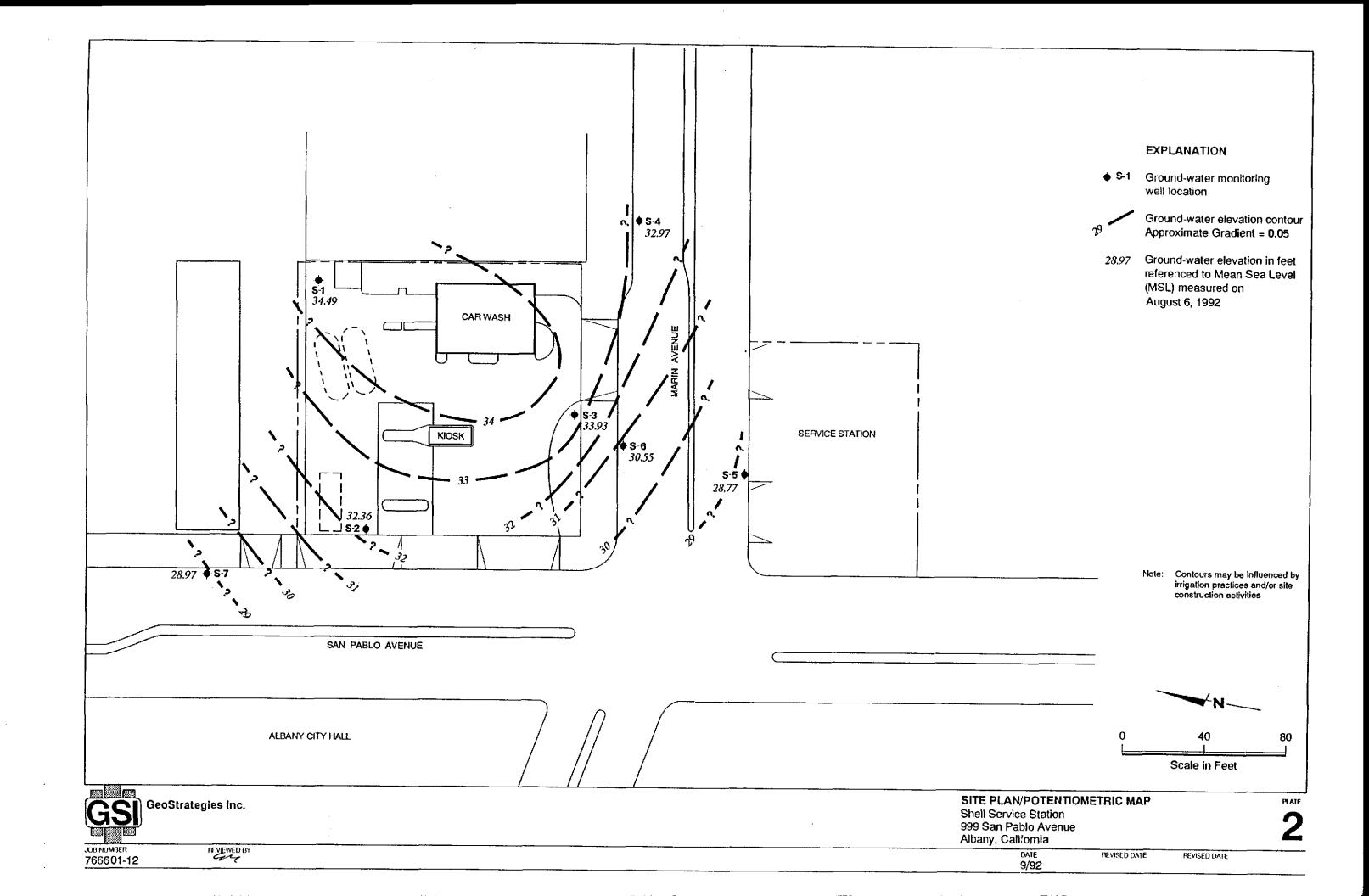
Shell Service Station 999 San Pablo Avenue Albany, California

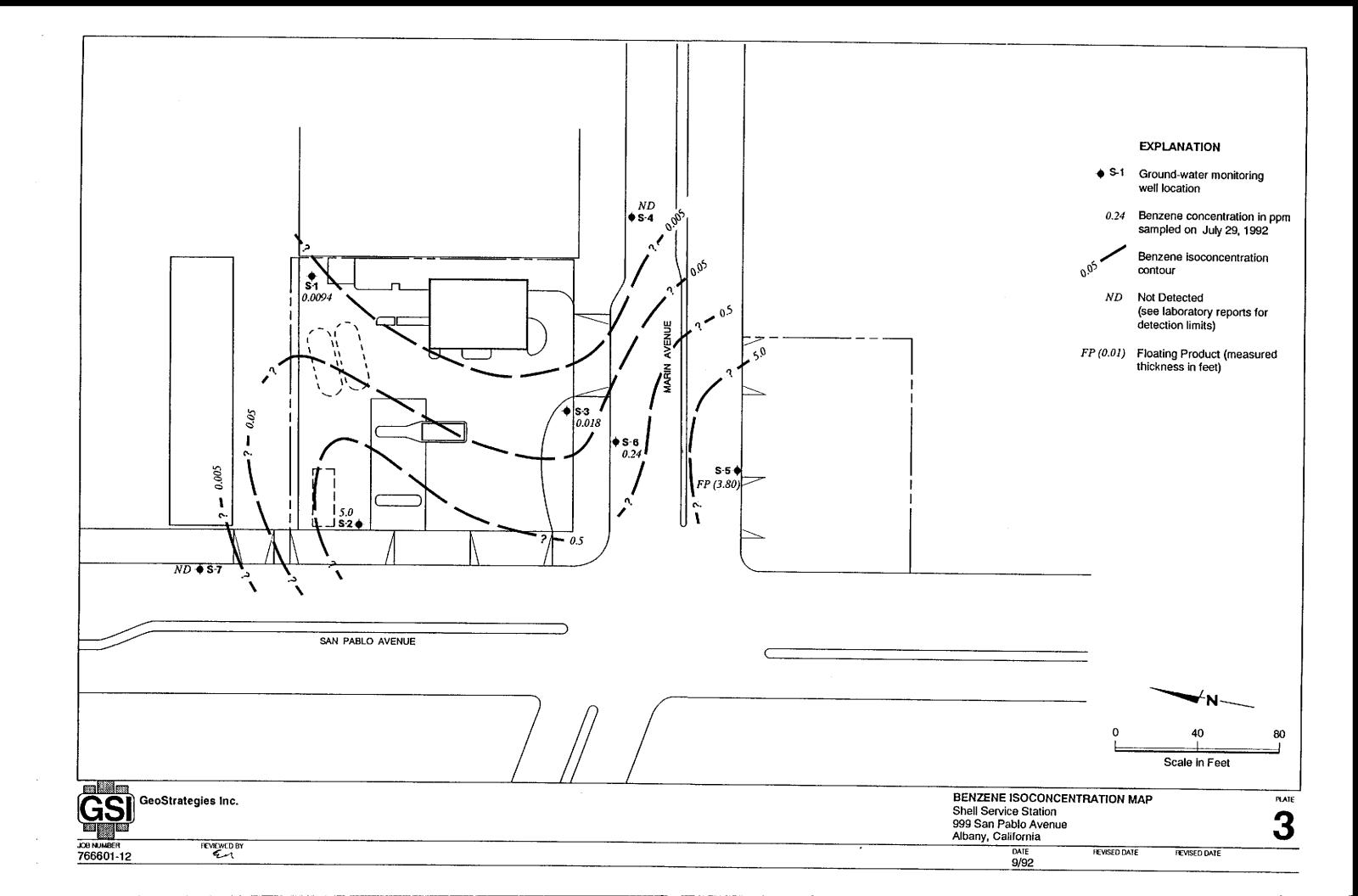
REVIEWED BY JOB NUMBER

DATE

REVISED DATE

REVISED DATE







August 26, 1992 Project: G67-19,01 WIC#: 204-0079-0109

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

Re: Third quarter 1992 ground-water monitoring report, Shell Oil Company, 999 San Pablo Avenue, Albany, 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 999 San Pablo Avenue, Albany, California. Third quarter monitoring was conducted on July 29 and August 6, 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-7 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. Floating product, 3.80 feet thick, was observed in well S-5. 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.

Equipment failure prevented the samplers from obtaining accurate depth-to-water and floating product thickness measurements for well S-5 on July 29, 1992. A complete water-level survey was performed on August 6, 1992. Only the data from the August 6 survey is included in table 1.

SAMPLING AND ANALYSIS

Ground-water samples were collected from wells S-1 through S-4, S-6, and S-7 on July 29, 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

G671901C.DOC

ground water were removed. Wells S-1, S-2, S-4, S-6, and S-7 were evacuated to dryness before the removal of three casing volumes. The 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 a 55-gallon drum. The drum was identified with a Shell-approved label 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-3) collected from well S-3. Please note that because of a clerical error, samples TB and FB from July 29, 1992 are called TB-1 and FB-1 on the chain-of-custody form and certified analytical report. All water samples collected during third quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

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 documents are attached.

If you have any questions, please call.

Very truly yours,

EMCON Associates

David Larsen

Environmental Sampling Coordinator

Orrin Childs

Environmental Sampling Supervisor

Ms. Ellen Fostersmith August 26, 1992 Page 3

Project G67-19.01 WIC# 204-0079-0109

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 documents

Table 1 Monitoring Well Field Measurement Data Third Quarter 1992

Shell Station: 999 San Pablo Avenue Albany, California WIC #: 204-0079-0109

Date: 08/28/92 Project Number: G67-18.01

Well Desig- nation	Water Level Field Date	TOB Elevation	Depth to Water	Ground- water Elevation	Total Well Depth	Floating Product Thickness	Water Sampla Field Date	рН	Electrical Conductivity	Temperature	Turbidity
		(ft-MSL)	(feet)	(ft-MSL)	(fest)	(feet)		(std. units)	(micromhos/cm)	(degrees F)	(HTU)
s-1	08/23/91	42.73	8.37	34.36	11.8	ND	08/23/91				
S-1	11/07/91	42.73	8.30	34.43	11.8	ND	11/07/91	8.63	614	68.1	MA
S - 1	01/28/92	42.73	7.84	34.89	11.4	NO	01/28/92	7.04	544	68.3	NR
S-1	05/06/92	42.73	7.95	34.78	11.8	ND	05/06/92	6.87	707	63.9	>200
5 - 1	08/06/92	42.73	8.24	34,49	11.8	ND ND	07/29/92	6.56	692	67.3	833
				01,10	11.0	טא	01153135	6.71	856	68.0	191
S - 2	08/23/91	40.73	8.80	31.93	12.2	ND	08/23/91				
S-2	11/07/91	40.73	8.61	32.12	12.2	ND		6.56	940	69.4	NR
5-2	01/28/92	40.73	7.80	32.93	11.8	NO NO	11/07/91	6.66	855	69.8	NR
S-2	05/06/92	40.73	8.10	32.63	12.1	_	01/28/92	6.94	1177	62.4	>200
S-2	08/06/92	40.73	8.37	32.36	12.2	HO	05/06/92	7.02	1154	63.5	21.9
			0.07	JE. 30	12.2	HD	07/29/92	8.50	1401	Б8,Q	>200
2-3	08/23/91	41.46	8.14	33.32	12.2	ND	08/23/91				
S -3	11/07/91	41.48	7.91	33.55	12.2	NO ON	11/07/91	6.46	698	70.3	HR
S - 3	01/28/92	41.46	7.53	33.93	11.9	NO NO	01/28/92	6.93	614	70.8	HR
5 - 3	05/06/92	41.46	7.55	33.91	12.1	ND	05/06/92	6.76	777	81.2	>200
S -3	08/06/92	41.46	7.53	33.93	12.2	סא סא		6.54	704	65.2	>1000
				00.00	12.2	NU	07/29/92	6.16	757	68.9	>200
s - 4	08/23/91	41.10	8.32	32.78	14.1	סא	08/23/91	£ ££	220		
S-4	11/07/91	41.10	8.32	32.78	14.1	ND	11/07/91	6.55	358	67.8	NR
5 - 4	01/28/92	41.10	7.40	33.70	13.8	NO	01/28/92	6.60	356	69.5	NR
5 - 4	05/06/92	41.10	7.21	33.89	14.1	םא סא	05/05/92	6.80	409	63.6	>200
s · 4	08/06/92	41.10	8.13	32.97	14.0	H0	07/29/92	5.16	419	67.9	>1000
			2.10	32,57	,4.0	RΨ	01/29/82	5.20	490	55.5	>200

TOB = top of well box

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

std. units = standard pH units

micromhos/cm = micromhos per centimeter

degrees F = degrees Fahrenheit

NTU = nephelometric turbidity units

ND = None detected

NR = Not reported; data not available

Table 1 Monitoring Well Field Measurement Data Third Quarter 1992

Shell Station: 999 San Pablo Avenue Albany, California WIC #: 204-0079-0109

Date: 08/28/92 Project Number: G67-19.01

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	Temperature	Turbidity
		(ft-MSL)	(foot)	(ft-MSL)	(feet)	(feet)		(std. units)	(micromhos/cm)	(degrees F)	(אדט)
S-5	08/23/91	39.99	15.14	29.25**	HR	5.50	08/23/91	FP			
3-5	11/07/91	39,99	15.10	29.17**	HR.	5.35	11/07/91		FP	FP	FP
5-5	01/28/92	39.99	14.05	29.86**	15.7	4,90	01/28/92	FP	FP	FP	FP
5-5	05/06/92	39,99	14.31	30,21**	15.1	5.66		FP	FP	FP	F P
5-5	08/06/92	39.99	14,26	28.77**	15.1	3.80	05/06/92	FP	FP	FP	FP
			,25	20.11	10.1	3.60	07/29/92	FP	FP	FP	FP
S-6	08/23/91	40.12	9.58	30.54	15.3	No	00/10/01				
S - B	11/07/91	40.12	10.66	29.26	15.3	ND NO	08/23/91	6.61	598	58.8	HR
S-6	01/28/92	40.12	8.97	31.15	14.8		11/07/91	7.34	538	70.2	NR
5-6	05/06/92	40.12	8.27	31.85	15.2	HD	01/28/92	7.09	728	65.8	>200
S-6	08/05/92	40.12	9.57	30.55		ND	05/06/92	7.27	594	64.5	>1000
		10,12	B.31	30.33	15.2	HD	07/29/92	5.89	912	67.5	>200
S-7	08/23/91	40.10	11.16	28.94	15 1						
\$-7	11/07/91	40.10	11.48	28.62	15.1	HD	08/23/91	6.61	600	68.4	NR
\$-7	01/28/92	40.10	10.72		15.2	HD	11/07/91	6.39	606	69.8	NR
5-7	05/06/92	40.10	10.34	29.38	14.7	MD	01/28/92	6.79	800	62.7	>200
S-7	08/06/92	40.10		29.76	15.1	ND	05/06/92	6.84	826	67.2	>1000
	00. 50/ SE	10,10	11.13	28.97	15.1	סא	07/29/92	5.80	958	65.6	>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

KIU = nephalometric turbidity units

^{** =} groundwater elevation corrected to include 80 percent of the floating product thickness measured in the well

NR = Not reported; data not available

FP = Floating product; well contained floating product and was not sampled

ND = None detected

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

Shell Station: 999 San Pablo Avenue Albany, California

W1C #: 204-0079-0109

Date: 08/28/92 Project Number: 067-19,01

Sample Desig- nation	Water Sample Field Date	TPH-g	Benzene	Toluene	Ethyl- benzene	Total Xylenes
**		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
s-1	08/23/91	2.9	0.027	<0.0025	0.075	0.010
S - 1	11/07/91	2.9	0.0080	0.0025	0.046	0.018
S-1	01/28/92	2.0	0.011	<0.0025		0.025
S-1	05/06/92	1.2	0.0055	<0.0025	0.050	0.020
8-1	07/29/92	2.0	0.0094		0.080	0.035
			V. 0034	<0.0025	0.13	<0.0025
S - 2	08/23/91	23.	4.4	0.25	1.0	
S-2	11/07/91	40.	4.0	0.16	1.9	2.4
S - 2	01/28/92	22.	1.6		1.02	3.4
S - 2	05/06/92	20.		0.07	0.42	1.7
S - 2	07/29/92	42,	2.6	0.11	0.86	1.9
_	VII LOT 32	76.	5.0	0.16	1.1	3.5
s - 3	08/23/91	2.0	0.025	0.0040	0.0001	0.0045
5 - 3	11/07/91	4.0	0.020	0.0039	0.0093	0.0045
S - 3	01/28/92	2.1	0.021	0.0076	0.0050	0.0049
S-3	05/06/92	6.6	0.038	0.0078	0.0067	0.015
S-3	07/29/92	5.1	0.018		0.045	0.065
	2, . EQ, VE	3.1	0.010	0.0059	0.027	0.060
SD - 3	07/29/92	5.8	0.013	0.012	0.029	0.060
						3.000
S - 4	08/23/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
S-4	11/07/91	0.26	<0.0005	<0.0005	<0.0005	<0.0005
5-4	01/28/92	0.11*	<0.0005	<0.0005	<0.0005	<0.0005
s - 4	05/08/92	0.054+	<0.0005	<0.0005	<0.0005	<0.0005
5 - 4	07/29/92	0,067	<0.0005	<0.0005	<0.0005	
				15.0003	~U.00U5	<0.0005

IPH-g = total petroleum hydrocarbons as gasoline

^{* =} Compounds detected and calculated es gasoline are not characteristic of the standard gasoline chromatographic pattern

^{+ =} The concentration reported as gasoline is primarily due to the presence of a discrete hydrocarbon peak not indicative of gasoline

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

Shell Station: 999 San Pablo Avenue Albany, California

WIC #: 204-0079-0109

Date: 08/28/92 Project Number: 067-19.01

Sample Desig-	Water Sample Field	-			FIL.	
nation	Date	TrH-g	Benzene	Tolvene	Ethyl- benzene	Total Xylenes
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
S-5	08/23/91	FP	FP	FP	FP	
S-5	11/07/91	FP	FP	FP	FP	FP
S-5	01/28/92	FP	FP	FP		F.P.
5-5	05/06/92	FP	FP	FP	FP	FP
5 - 5	07/29/92	₽₽	FP	FP	FP	FP
		• • •	r r	Γ¥	FP	FP
5-6	08/23/91	9.6	0.48	n ne	0.10	
S-6	11/07/91	6.2	0.24	0.08	0.12	0.15
S-6	01/28/92	5.6	0.25	0.023	0.025	0.027
S-6	05/08/92	7.1		0.015	0.041	0.036
5-6	07/29/92	13,	0.33	0.029	0.11	0,21
		13,	0.24	<0.05	0.056	0.078
5-7	08/23/91	<0.05	<0.0005	.0.005		
5-7	11/07/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
5-7	01/28/92	<0.05		<0.0005	<0.0005	<0.0005
s-7	05/06/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
S-7	07/29/92	0,18	<0.0005	<0.0005	<0.0005	<0.0005
	J 2010¢	0,10	<0.0005	<0.0005	<0.0005	<0.0005
FB	07/29/92	<0.05^	<0.0005^	.0 00054		
	V	70.00°	<u. td="" vvud^<=""><td><0.0005^</td><td><0.0005^</td><td><0.0005^</td></u.>	<0.0005^	<0.0005^	<0.0005^
TB	01/28/92	<0.05	<0.0005	-D 000F	0.0000	
18	05/06/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
T B	07/29/92	<0.05^	<0.0005^	<0.0005	<0.0005	<0.0005
	0 LU/ UL	₹ 0. 03°	<u.,עָטָטָטָאַ< td=""><td><0.0005^</td><td><0.0005^</td><td><0.0005^</td></u.,עָטָטָטָאַ<>	<0.0005^	<0.0005^	<0.0005^

TPH-g = total petroleum hydrocarbons as gasoline

FP = Floating product; well contained floating product and was not sampled

^ = Samples TB and FB from 07/29/92 are called 7B-1 and FB-1 on the chain-of-custody form and certified analytical report

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 # : 9207378 Date Received: 07/30/92

Project ID : 204-0079-0109

Purchase Order: MOH-B813

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

ANAMETRIX ID	CLIENT SAMPLE ID
9207378- 1	S-4
9207378- 2	S-7
9207378- 3	S-3
9207378- 4	S-1
9207378- 5	S-6
9207378- 6	S-2
9207378- 7	SD-3
9207378- 8	TB-1
9207378- 9	FB-1

This report consists of 4 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

EMCON ASSOCIATES

AUG 1 2 1992

RECEIVED

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

MR. DAVID LARSEN EMCON ASSOCIATES 1938 JUNCTION AVE. SAN JOSE, CA 95131

Workorder # : 9207378 Date Received: 07/30/92
Project ID: 204-0079-0109
Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9207378- 1	S-4	WATER	07/29/92	TPHg/BTEX
9207378- 2	S-7	WATER	07/29/92	TPHg/BTEX
9207378- 3	S-3	WATER	07/29/92	TPHg/BTEX
9207378- 4	S-1	WATER	07/29/92	TPHg/BTEX
9207378- 5	S-6	WATER	07/29/92	TPHg/BTEX
9207378- 6	S-2	WATER	07/29/92	TPHg/BTEX
9207378- 7	SD-3	WATER	07/29/92	TPHg/BTEX
9207378- 8	TB-1	WATER	07/29/92	TPHg/BTEX
9207378- 9	FB-1	WATER	07/29/92	TPHg/BTEX

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

MR. DAVID LARSEN EMCON ASSOCIATES 1938 JUNCTION AVE. SAN JOSE, CA 95131 Workorder # : 9207378
Date Received : 07/30/92
Project ID : 204-0079-0109
Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

GC/TPH - PAGE 2

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

Anametrix W.O.: 9207378 Matrix : WATER

Project Number : 204-0079-0109 Date Released : 08/11/92

Date Sampled : 07/29/92

	Reporting Limit	Sample I.D.# S-4	Sample I.D.# S-7	Sample I.D.# S-3	Sample I.D.# S-1	Sample I.D.# S-6
COMPOUNDS	(mg/L)	-01	-02	-03	-04	-05
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline * Surrogate Rece Instrument I.I Date Analyzed RLMF	0.0005 0.0005 0.0005 0.0005 0.050	ND ND ND 0.067 90% HP21 08/07/92	ND ND ND 0.16 82% HP21 08/07/92	0.018 0.0059 0.027 0.060 5.1 94% HP21 08/07/92	0.0094 ND 0.13 ND 2.0 80% HP21 08/07/92	0.24 ND 0.056 0.078 13 87% HP21 08/07/92

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

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

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

Date 8/11/92

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.

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

Anametrix W.O.: 9207378

Project Number : 204-0079-0109

Matrix : WATER

Date Released : 08/11/92

Date Sampled: 07/29/92

	Reporting Limit	Sample I.D.# S-2	Sample I.D.# SD-3	Sample I.D.# TB-1	Sample I.D.# FB-1	Sample I.D.# BG0701E3
COMPOUNDS	(mg/L)	-06	-07	-08	-09	BLANK
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline % Surrogate Rece Instrument I.I Date Analyzed RLMF		5.0 0.16 1.1 3.5 42 92% HP21 08/07/92 250	0.013 0.012 0.029 0.060 5.8 96% HP21 08/07/92	ND ND ND ND ND 105% HP21 08/07/92	ND ND ND ND ND 105% HP21 08/07/92	ND ND ND ND ND 105% HP21 08/07/92

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

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.

Date 2/11/92

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.

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SHELL OIL COMPANY RETAIL ENVIRONMENTAL ENGINEERING					CHAIN OF CUSTODY RECORD Serial No.:					CORD	Date: Page / of 2				
Site Address: 999 San Pablo Ave. Albany, CA												LA	B:	Anametri	
Shell Engineer: Dan Kirk Consultant Name & Address: 193 ENCON ASSOC. S Consultant Contact: David Larsen	Phone No. (Fax N: 675- SO Junction An Jose Phone No. (Fax N: 45-2	6168 Ave. 95131 (408) 3-2269	Aod. Gas)	4od. Diesel)	(602)	(EPA 8240)					Qui Site Soil Wat Air	Investor di for di er for Sampler Sam	Monito ligation sposal dispos e- Sys	Oring 5461 D 5441 D 5442 Al	TURN AROUND TIME 24 hours 48 hours (Normal) Other NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.
Sampled By: Bart State Sampled Name: Bart State Sample ID Date	Soil Water Air	No. of conts.	ļ	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA	Test for Disposal				Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-4 7-29-92 S-7	X	3	<u>χ</u> χ		X		-		_	-	40	Hel	1		
5-3 5-1 5-6		3 3	X X		X X X							+			2 VOAS GUBRES 1- Bubbly
5-2 -5-No 5 imple -		3 2 3	X X		X		- <i>P</i> ;	'D of it	ct.						1-Rubbly
Relinquished By (signature): Strall - Straff C Relinquished By (signature):	Printed name: Bart Star Printed name:	1/00%	Date: Time Date: Time	: 110		K	a. 27	(signa	Ta.]_ H	0	4	1	d name: 7HY FAFFLE d name:	2 - Buffy Date: 7-30-9 Time: 1102 Date:
Relinquished By (signature): THE LA	Printed name: BORATORY MUST	PROVIDE	Date: Time	;	OF			(signa		JSTOI	oy w	11111		d name:	Time: Date: Time:

1,407370 SHELL OIL COMPANY RETAIL ENVIRONMENTAL ENGINEERING - WEST CHAIN OF CUSTODY RECORD Date: Page 2 or 2 Scrial No.: Site Address: 999 San Pablo Ave. Analysis Required LAB: Anametrix WIC#: CHECK ONE (I) BOX ONLY CT/DT TURN AROUND TIME Shell Engineer:

Dan Kirk

Fax #:675-6168

Consultant Name & Address: 1938 Junction Ave. Shell Engineer: 5461 24 hours Quarterly Monitoring 5441 Site Investigation 48 hours 5442 Soil for disposal 15 days (Normal) EMCON ASSOC. San Jose 95131
Consultant Contact: Phone No. (408)
David Lavsen Fax 11: 453-2269 5443 Water for disposal TPH (EPA 8015 Mod. Diesel) 8240) Other 5452 Air Sample- Sys O&M NOTE: Notify Lab as Water Sample - Sys O&M 5453 soon as possible of 3-40ml VOAs (HCI) for g 8TB Other 24/48 hrs. TAT, П Volable Organics Preparation Used SAMPLE MATERIAL Printed Name: Bart Stafford CONDITION/ DESCRIPTION COMMENTS ថ្មី Date Soil Water No. of Air Sample ID conts. 多节 7-29-92 40 HC/ NO 3 - Bubble FB-Retinquished By (signature): Printed parne: Date: 7-2) 97 Received (signature):
Time: 110-2 Kathy Rfaff
Date: Received (signature)! Printed name: PFAFFLE Date: 7-30-92 Time: 1102 Relinquished By (signature): Printed name: Date: Time: Time: Relinquished By (signature): Printed name: Received (signature): Date: Printed name: Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Last Revision Date: 10/15/91