November 9, 1992

Canonie Environmental Services Corp 7901 Stoneridge Drive Suite 100 Pleasanton, California 94588

Phone 510-463-9117 FAX: 510-463-2981

91-153-05

Mr. Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Care Services
Agency
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Preliminary Site Assessment Report
Garcia Enterprises, Inc. Site
16211 East 14th Street
San Leandro, California

Dear Mr. Seery:

This Preliminary Site Assessment Report (PSA) has been prepared by Canonie Environmental Services Corp. (Canonie) for the Garcia Enterprises, Inc. site located at 16211 East 14th Street in San Leandro, California. This report presents the work performed in accordance with a PSA Work Plan as amended and approved by the Alameda County Health Care Services Agency, Department of Environmental Health (County) in a letter dated May 22, 1992. The PSA was performed to assess the potential impact to shallow ground water at the Garcia Enterprises, Inc. site associated with two underground storage tanks (USTs) which were formerly located at the facility.

Introduction and Background

The Garcia Enterprises, Inc. site is located in San Leandro near the intersection of East 14th Street and 162nd Avenue (Figure 1). A car wash was active at the site from approximately 1954 through 1964. In conjunction with the car wash, two 10,000-gallon USTs were located as shown on Figure 2. Both tanks were of steel single-wall construction. Although the specific contents of each UST was not documented, the USTs contained either gasoline or diesel fuel. The current tenant of the property is Town and Country Liquors.

Canonie performed UST removal activities at the Garcia Enterprises, Inc. site in accordance with an Underground Storage Tank Closure Plan approved by both the County and the Eden Consolidated Fire Protection District. The two USTs along with two service island pumps and associated piping were removed on July 17, 1991 and transported under manifest by Erickson, Inc. to their Richmond Facility for recycling. The tanks, while having visible corrosion, did not have any visible holes. Approximately 54 cubic yards of discolored backfill and native soils were removed from the excavation and temporarily stockpiled at the site. After completing the excavation, a total of four verification soil samples were taken from the excavation sidewalls (no bottom samples were taken since ground water was accumulating in the open excavation). One soil sample was taken from beneath the former pump island and three soil samples were taken beneath the removed product piping.

A site plan depicting the former UST locations and soil sample locations is provided on Figure 2. All soil samples were taken at a depth of approximately nine to ten feet. All verification samples were analyzed for total petroleum hydrocarbons-diesel range (TPH-D); total petroleum hydrocarbons-gasoline range (TPH-G); and benzene, toluene, ethylbenzene, and xylene (BTEX). The soil sample from the northeast tank excavation sidewall (designated Sample NE-9.5' on Figure 2) indicated a TPH-D concentration of 15 parts per million (ppm). TPH-G and BTEX were non-detectable for the northeast

sidewall sample. No other detectable concentrations were indicated for any excavation sidewall samples and all pipe trench soil samples indicated non-detectable concentrations of all analytes tested. The soil sample taken beneath the former service pump location indicated benzene present at 0.16 ppm and toluene present at 0.217 ppm. TPH-D, TPH-G, xylene and ethylbenzene were all non-detectable. A summary of the chemical analyses for sampling performed during tank removal activities may be referenced in a report entitled "Underground Storage Tank Closure Report" (Canonie, September 1991).

Two soil samples were also collected from the soil stockpile and were analyzed for TPH-G, TPH-D, BTEX, and organic lead to profile the soil for disposal. The stockpile was subsequently transported as non-hazardous to a Class III landfill for disposal.

As previously mentioned, ground water was encountered in the excavation at a depth of approximately 10.5 feet. One water sample was taken from the water that accumulated in the tank removal excavation.

The water grab sample (designated WS-1) obtained from the open excavation indicated the presence of TPH-D at 0.43 ppm, TPH-G at 3.4 ppm, benzene at 0.033 ppm, toluene at 0.084 ppm, ethylbenzene at 0.02 ppm, xylene at 0.13 ppm, and total lead at 0.021 ppm. Benzene was the only analyte found in excess of primary drinking water standards (maximum contaminant levels, 0.001 ppm for benzene) in the water sample retrieved directly from the excavation. It should be noted that this water had mixed with soil disturbed during excavation operations and is not representative of ground water quality. A water sample taken from the Baker™ Tank (designated WS-2) indicated concentrations of all analytes below primary drinking water standards. The presence of detectable concentrations of petroleum hydrocarbons in the water initiated the agency request to perform an investigation to determine the potential impact to ground water.

PSA Activities

Field work for the PSA at the Garcia Enterprises, Inc. site was performed under the direction of Dr. James Babcock (Registered Geologist #4515) during the month of September 1992. Three ground water monitoring wells were installed on September 1, 1992 at the locations shown on Figure 3. Canonie used a truck-mounted flight auger rig with hollow stem augers and a split spoon sampler. An eight-inch auger was used to provide sufficient annular space for subsequent installation of monitoring wells. During drilling and well installation, a Canonie geologist supervised the drilling subcontractor, log the soil samples and drill cuttings, and obtained samples for chemical analyses. The boring logs for the three monitoring well locations are given in Appendix A.

During the drilling activities, soil samples were collected at significant changes in lithology and at the soil/water interface using a split-spoon sampler lined with brass tubes. If samples were taken for chemical analysis, the ends of the brass tubes were wrapped with aluminum foil and covered with plastic caps. The brass tubes were labeled and sealed in a Ziplock™ bag. Samples were labeled with the sample location, depth interval, date, job number, and sampler's initials. Each sample was recorded on a chain-of-custody form which was maintained with the cooler. Samples collected were placed immediately in a cooler with ice, or equivalent, and transported the same day to the laboratory for analysis, when possible. The soil samples were analyzed for TPH-G, TPH-D, and BTEX (EPA Methods 8015 modified and 8020).

Canonie placed 2-inch diameter PVC casing with sand filter pack and surface seal for each ground water monitoring well. PVC blank casing was coupled to 0.010 inch slot PVC screen was used to complete the wells. The well screen were planned to extend approximately five feet above and ten feet below the existing water table, however, due to the limited thickness of the water bearing zone ten foot screens were used at monitoring well locations MW-1 and MW-2 to avoid the possibility of penetrating the

underlying aquitard. Because the native soils are primarily silty clay, a Lonestar number 2/12 Monterey-type sand was used for the filter pack. The top of the sand filter extended to a depth of approximately one foot above the top of the screen. A two-foot bentonite seal was placed immediately above the sand filter pack. An expansive cement-bentonite grout was then placed from the top of the bentonite seal to approximately one foot below ground surface.

A locking diaphragm expansion cap was affixed to the piezometer to discourage unauthorized access to the well. A well monument with a bolted lid was set around the well casing with concrete. Well construction details are given in Appendix B.

All down-hole equipment was steam-cleaned prior to use and before leaving the site, and the split-spoon sampler was washed in a solution of trisodium phosphate (TSP) and rinsed with potable water between each sample run. All soil cuttings and steam cleaning water was containerized in 55-gallon drums. These drums were moved to a temporary on-site storage area pending analytical results.

The wells were developed by surge block and bailing on September 8, 1992. Approximately 35 gallons of water (greater than fifteen casing volumes for each well) was removed from each well. The wells were developed until the water removed is visually clear and free of sediment. The purge water was temporarily stored on-site in 55-gallon steel drums.

Water samples were collected with teflon bailers on September 11, 1992. Prior to sampling, a teflon bailer was used to purge the wells. No free product or odor was observed during sampling activities. While purging, a minimum of three consecutive measurements of the indicator parameters pH, temperature, and conductivity were recorded immediately prior to sample collection. Three casing volumes were purged prior to sampling. Water samples were collected in triplicate in 40-milliliter volatile organic analysis (VOA) bottles and one-liter amber glass containers for analysis for

TPH-G, TPH-D, and BTEX (EPA Method 8015 modified and 602). Samples were labeled with the sample identification number, date, time, job number, and sampler's initials. Each sample was recorded on a chain of custody form which was remain with the samples. The samples were placed immediately in an iced cooler and transported the same day to Sequoia Analytical in Redwood City for analysis.

A composite water sample was collected and analyzed for TPH-D, TPH-G, and BTEX to profile well development water, well purge water, and steam cleaning water for disposal. Following receipt of analytical results, the water was disposed of as non-hazardous at Gibson-Pilot. Similarly, a composite soil sample from the drilling cuttings was collected and analyzed for petroleum hydrocarbons and BTEX. The soil cuttings were disposed of as non-hazardous at a Class III disposal facility.

Wells were surveyed into an established benchmark to determine the elevation of the measuring point of each well in feet relative to mean sea level (MSL). The ground surface elevation at the well was also be surveyed. Water levels were measured using a battery powered sounder. The water level for each well was measured in reference to a measuring point on the PVC well casing (indelibly marked and notched). A summary of water level and measuring point elevations is given in Table 1.

Findings and Recommendations

A summary of analyses of soil and ground water performed for the PSA is given in Table 2. Certified analytical results are contained in Appendix C. As shown in the table, only minor concentrations of benzene in the ground water were found; with concentrations of 0.0026 and 0.0029 ppm in monitoring wells MW-1 and MW-3 respectively. The only other hydrocarbon detected in the ground water was TPH-D at a concentration of 0.055 ppm in the sample taken from MW-3. All other analytes indicated non-detectable concentrations. All of the soil samples had non-detectable

concentrations of petroleum hydrocarbons indicating that the extent of petroleumaffected soil had been removed during the original tank removal activities.

Measurement of water levels on September 11, 1992 indicated a southwesterly gradient as shown on Figure 3. This is consistent with an earlier review of available agency information to collect information on ground water flow direction. In accordance with a phone conversation with Mr. Andreas Godfrey of Alameda County Public Works, the flow direction of shallow ground water generally follows the local topography in a westerly direction. Mr. Godfrey also referenced a site at 16304 Foothill Blvd. (intersection of Foothill Blvd. and 159th St.) for which the ground water flow (ground water depth of approximately 12 to 17 feet) is toward the southwest. Due to the local gradient and the low concentrations of analytes detected, the petroleum hydrocarbons detected may be attributable to an off-site source. Further due to the limited extent of water bearing zone, it is not likely to contribute to or adversely affect a water supply source. In light of these considerations, further sampling of the monitoring wells is not warranted.

Respectfully submitted,

James W. Babcock, Ph.D.

Project Manager

JWB/md

cc: A. Garcia, Garcia Enterprises, Inc.

TABLE 1

GROUND WATER ELEVATIONS GARCIA ENTERPRISES

Well Number	Well Elevation TOC (NGVD) Feet	Depth of Ground Water from TOC Feet	Ground Water Elevation Feet
MW-1	34.75	8.58	26.17
MW-2	35.26	9.13	26.13
MW-3	35.19	9.04	26.15

Notes:

- 1. TOC Top of Casing.
- 2. NGVD National Geodetic Vertical Datum.
- 3. Depth to ground water measured September 11, 1992.

TABLE 2
SUMMARY OF CHEMICAL ANALYSES
GARCIA ENTERPRISES
(Continued)

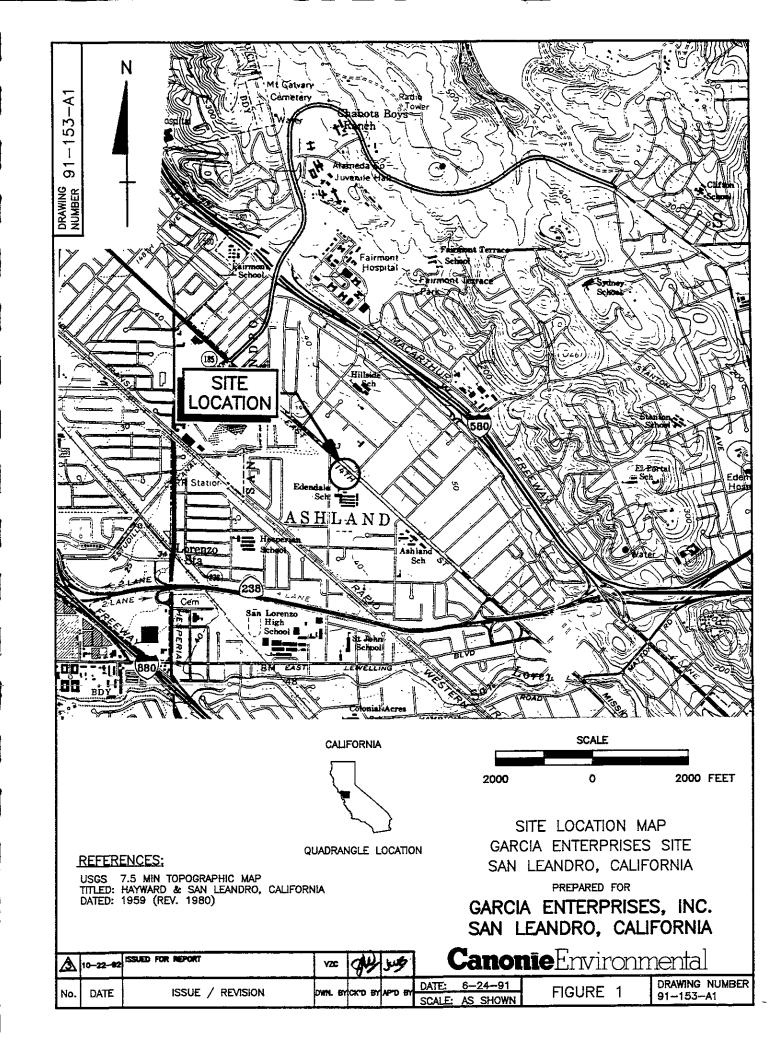
Sample Identification	Sample Depth Interval (ft)	Total Extractable Petroleum Hydrocarbons (ppm)	Total Purgeable Petroleum Hydrocarbons (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Xylene (ppm)
Soil Samples							
MW-1, 10.5-11'	10.5-11	ND	ND	ND	ND	ND	ND
MW-1, 11.5-12'	11.5-12	ND	ND	ND	ND	ND	ND
MW-2, 11-11.5'	11-11.5	ND	ND	ND	ND	ND	ND
MW-2, 12.5-13'	12.5-13	ND	ND	ND	ND	ND	ND
MW-3, 10.5-11'	10.5-11	ND	ND	ND	ND	ND	ND
MW-3, 12-12.5'	12-12.5	ND	ND	ND	ND	ND	ND
Ground Water Samples				2.6 7.26			
MW-1	NA	ND	ND	0.0026	ND	ND	ND
MW-2	NA	ND	ND	ND	ND	ND	ND
MW-3	NA	ND	0.055	0.0029	ND	ND	ND
			55 PP6	2.9 PP6			

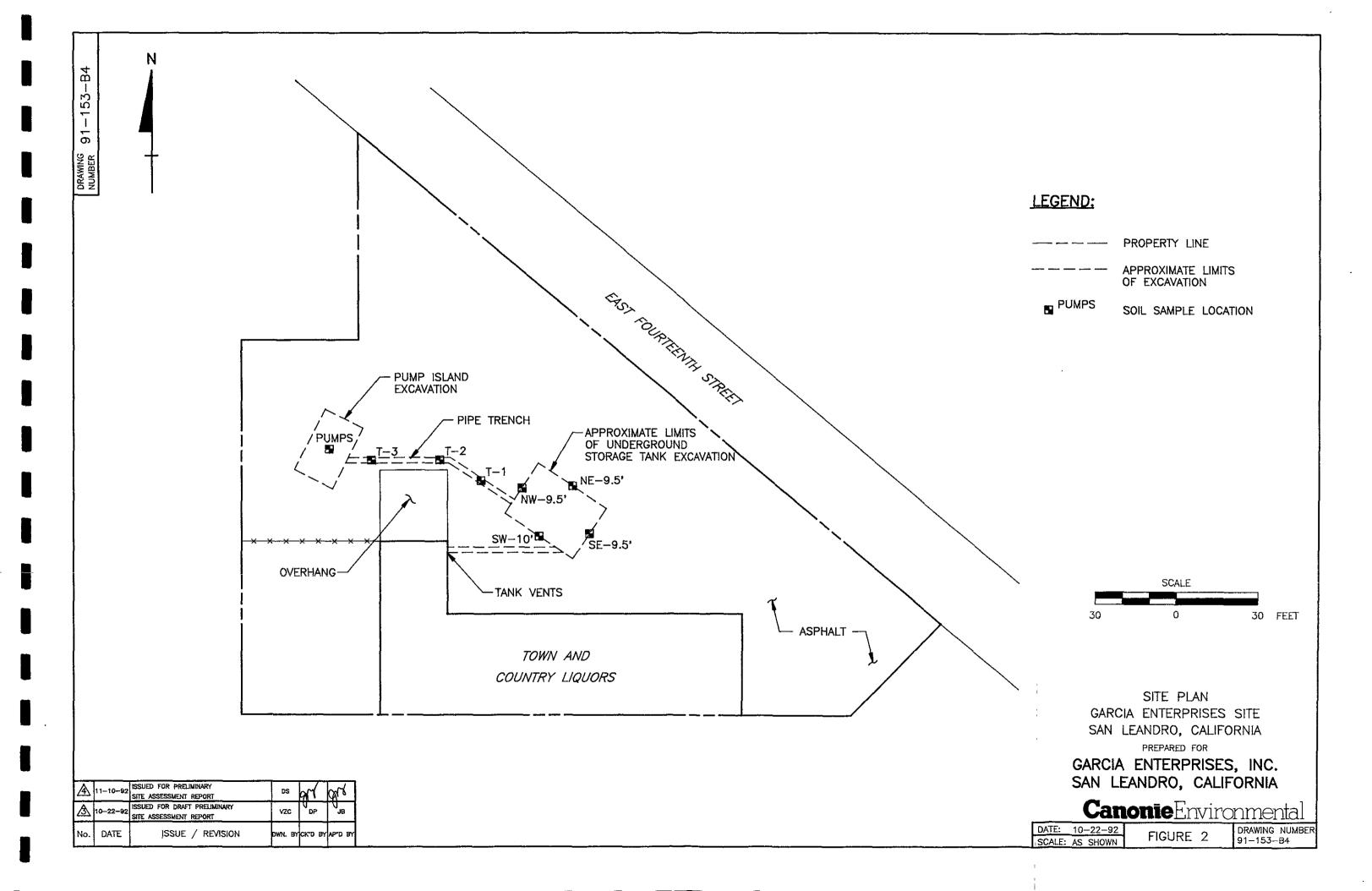
TABLE 2 SUMMARY OF CHEMICAL ANALYSES GARCIA ENTERPRISES (Continued)

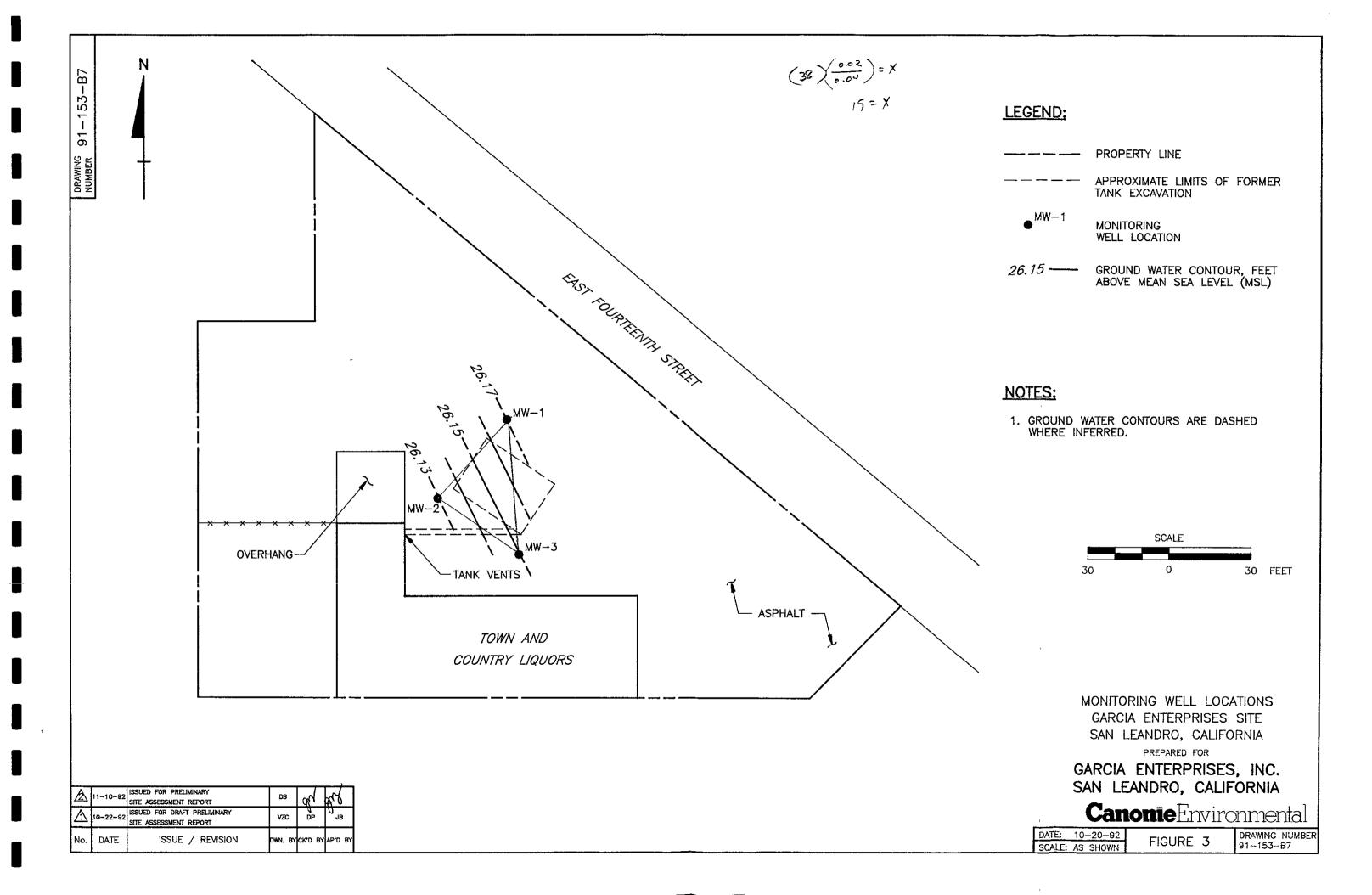
Sample Identification	Sample Depth Interval (ft)	Total Extractable Petroleum Hydrocarbons (ppm)	Total Purgeable Petroleum Hydrocarbons (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Xylene (ppm)
Profile Samples for Dis	sposal						
SP Comp (Soil)	NA	14	ND	ND	ND	ND	ND
Comp H2O (Water)	NA	0.130	ND	ND	ND	ND	ND
		130 ppm					

Notes:

- 1) ND indicates none detected at method detection limits.
- 2) NT denotes not tested.
- 3) NA denotes not applicable.
- 4) Profile samples taken to characterize materials for disposal.







APPENDIX A
BORING LOGS

Boring Log

Canonie

PROJECT No. 91-153-05

BORING No. MW-1

LOGGED BY GMM

PROJ	PROJECT NAME: GARCIA ENTERPRISE - SAN LEANDRO, CALIFORNIA														
	BORING LOCATION: BY THE SIGN SURFACE ELEV: 35.13 FEET														
DRIL	DRILLER: RANDY WOLFE; NEST HAZMAT DATE STARTED: 9-1-92 DATE FINISHED: 9-1-92														
3 H			AMPLE		ı	BLOV	-	REC	CL ASS	GRAPHIC LOG	MC	Q,	LAYER DEPTH	SOIL DESCRIPTION	PIE20
DEPTH	No	TYPE	INTE FROM	TO	8. 0.	15. 8.	12-	(in)	USCS	GRA L	(%)	(tsf)	38	AND REMARKS	PIE
10- 15- 20- 35- 40-	2 3 1 4	ස ස ස ස ස	5.0 9.5 11.0	11.0 12.5	3 4.2 4	3 6 3 5	5 9 4	18 18	(g) Cr (S)			2.5	10.5 11.5	Medium dense, brown, sand, with trace to some clay and silt, damp (fill material). Medium stiff, brown, silty clay, trace of sand, damp (contact depth is approximate). Color change to brown with some orange brown mottling at 9.5 ft. Loose to medium dense, medium brown, clayey fine to medium sand, saturated. Medium stiff, brown, gray, and orange brown mottled, silty clay, trace to some sand, moist. Color changes to black and decrease in sand at 12.0 ft. Bottom of Boring at 17.0 Feet. NOTES: 1. Boring was drilled with a truck—mounted Mobile B-81 drill rig equipped with an 8—inch hollow stem auger (HSA). 2. Upon completion, boring was converted to a 2—inch diameter monitoring well (see well detail MW-1). 3. Sampler Type: California Sampler (CS) O.D.: 2.5 inches I.D.: 2.0 inches 4. Groundwater was encountered at 10.5 feet during drilling.	1

Boring Log

Canonie

PROJECT No. 91-153-05

BORING No. MW-2

LOGGED BY GMM

	PROJECT NAME: GARCIA ENTERPRISE - SAN LEANDRO, CALIFORNIA SURFACE ELEV: 35.54 FEET														
				FE: WE	_			15			DAT	E SI	ARTE	SURFACE ELEV: 35.54 FEET D: 9-1-92 DATE FINISHED: 8-1-92	—
3			AMPLE								36	a,			02
DEPTH	No.	TYPE	INTE FROM	RVAL TO	0. 0.	12°	18.	(in)	USCS CLASS	CRAPH LOG	(X)	(tsf)	LAYER DEPTH	AND REMARKS	PIEZO
15- 25- 35- 40-	1 2 3 4 5	ස ස ස ස ස ස ස ස ස ස ස ස ස ස ස ස ස ස ස	9.5 11.0 12.5	11.0 12.5 14.0	4 3 5 3 5	5 4 8 4 6	6 4 6 7	12 15 15 15 15 15 15 15 15 15 15 15 15 15	SC CL			2.0 2.0 2.5	11.25	Medium dense, brown, sand, with trace to some clay and silt, damp (fill material). Medium stiff, medium brown, silty clay, trace of sand, damp (contact depth is approximate). Becomes moist at 10.5 ft. Loose, medium brown, clayey fine to medium sand, saturated. Medium stiff, black, silty clay, trace roots, trace sand, moist. Bottom of Boring at 17.0 Feet. NOTES: 1. Boring was drilled with a truck-mounted Mobile B-61 drill rig equipped with an 8-inch hollow stem auger (HSA). 2. Upon completion, boring was converted to a 2-inch diameter monitoring well (see well detail MW-2). 3. Sampler Type: California Sampler (CS) 0.0.: 2.5 inches 1.D.: 2.0 inches 4. Groundwater was encountered at 11.25 feet during drilling.	

Boring Log

Canonie

PROJECT No. 91-153-05
BORING No. MW-3
LOGGED BY GMM

BORING LOCATION: NEAR ENTRANCE TO STORE SURFACE ELEV: 35.58 FEET														
ORILLE	RILLER: RANDY WOLFE: WEST HAZMAT DATE STARTE											ARTE	D: 9-1-92 DATE FINISHED: 9-1-92	
E H		s	AMPLE		1	BLOW	•	REC	USCS CLASS	PHIC 00	MC Gi FE 문		LAYER DEPTH	SOIL DESCRIPTION AND REMARKS
DEPTH	No.	TYPE		r	0.	8.	12-	(in)	8	だり	(X)	(tsf)	₹ 8	AND REMARKS
<u> </u>			FROM	TO	6.	15.	18,	1	3					
-									SP				1	Medium dense, brown, sand, with trace to some clay and silt, damp (fill material). Stiff, dark to medium brown with trace light brown mottling, silty clay, trace of
5	1	cs	4.5	6.0	4	3	4	18	a			3.5		fine to medium sand, damp.
10-	2	CS	9.5	11.O	3	2	2	18				2.5	10	
	3	cs	11.0	12.5	2	3	3	18	sc			3.5	12	Loose, medium brown, clayey fine to medium sand, saturated.
-												3.5		Decrease in clay and trace of coarse sand by 11.0 ft. Stiff, dark gray to black, silty clay,
15- -	4	CS	14.5	16.0	3	3	6	18				2.5	-	trace sand, moist.
20	5	cs	20.5	22.0	2	3	5	18	CL			2.5		Loose, medium brown, clayey fine to medium sand, saturated. Decrease in clay and trace of coarse sand by 11.0 ft. Stiff, dark gray to black, silty clay, trace sand, moist. Some light brown mottling by 14.5 ft.
25			-							//			22	Color change to light gray with light brown mottling and trace of medium sand and fine gravel at 2LO ft. Bottom of Boring at 22.0 Feet.
														NOTES:
30-														1. Boring was drilled with a truck-mounted Mobile B-81 drill rig equipped with an 8-inch hollow stem auger (HSA).
35-														Upon completion, boring was converted to a 2-inch diameter monitoring well (see well detail MW-3).
														3. Sampler Type: California Sampler (CS) O.D.: 2.5 inches I.D.: 2.0 inches
40-		ļ	1	1		ļ				1	ł]	.	4. Ground water was encountered at 10.0 feet during drilling.

APPENDIX B
WELL CONSTRUCTION DETAILS

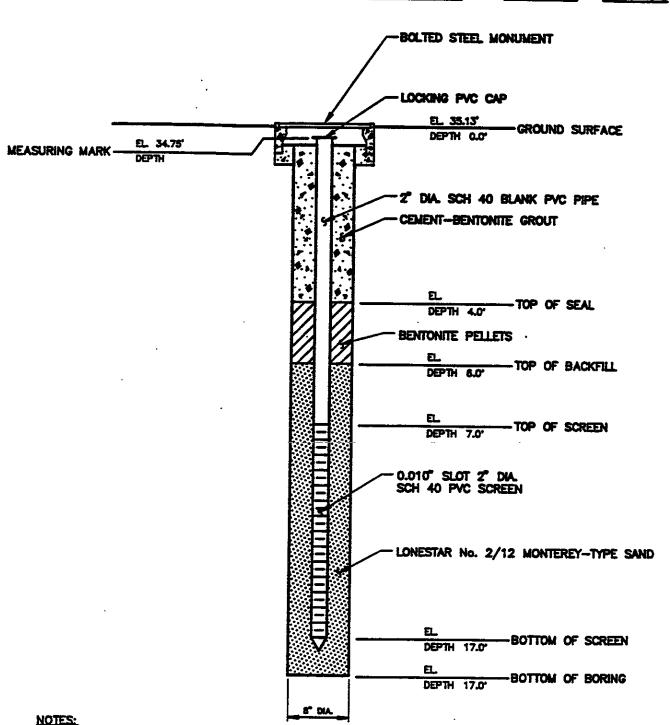
Canonie

WELL LOCATION NEAR SIGN

Observation Well Detail

DATE 9-1-92 BY GMM

	PROJECT NO.	_a1-122		
	WELL No.	MW-1		
PROJECT NAME GARCIA ENTERPRISE SITE - SAN LEANDR	O. CALIFORNIA			



1. NOT DRAWN TO SCALE

^{2.} SEE BORING LOG MW-1 FOR DETAILED SOIL DESCRIPTION.

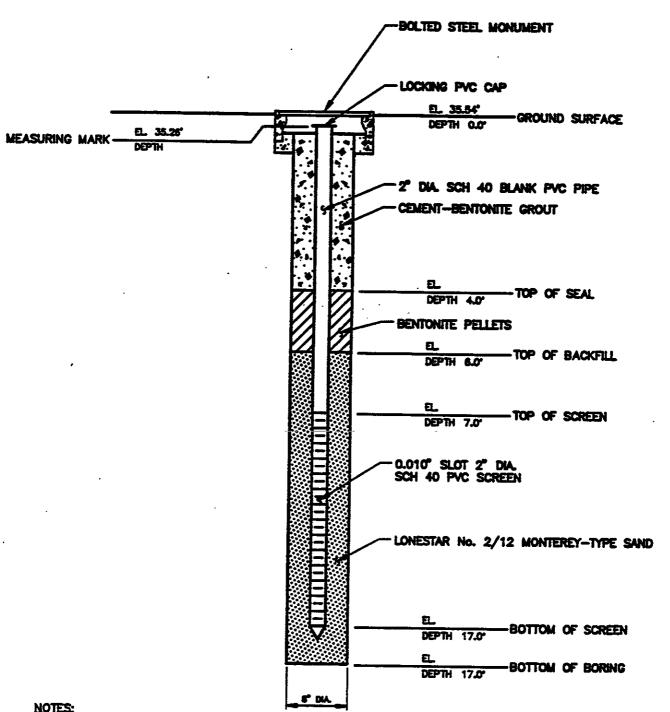
Canonie

Observation Well Detail

PROJECT No.	91-153
WELL No.	MW-2

PROJECT NAME GARCIA ENTERPRISE SITE - SAN LEANDRO, CALIFORNIA

WELL LOCATION BY BUILDING OVERHANG DATE 9-1-92 BY GMM



1. NOT DRAWN TO SCALE

^{2.} SEE BORING LOG MW-2 FOR DETAILED SOIL DESCRIPTION.

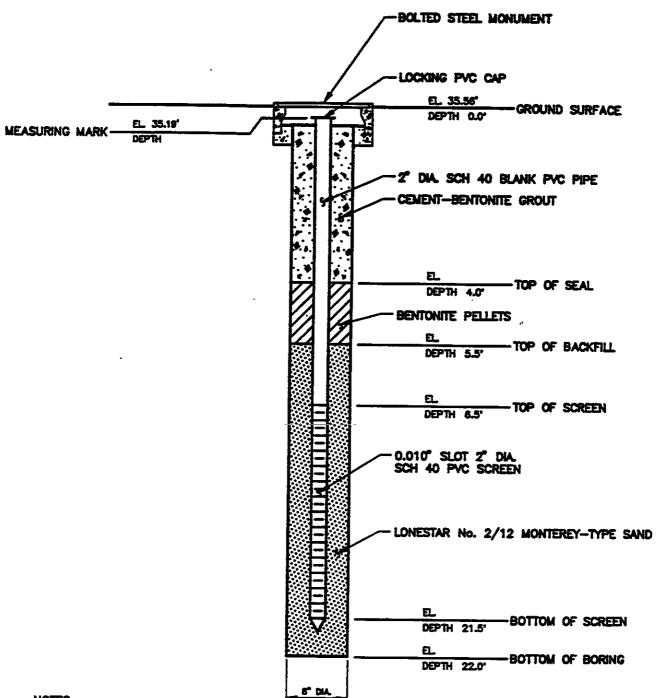
Canonie

Observation Well Detail

PROJECT No.	91-153
WELL No.	MW-3

PROJECT NAME GARCIA ENTERPRISE SITE - SAN LEANDRO, CALIFORNIA

WELL LOCATION BY ENTRANCE OF STORE DATE 9-1-92 BY GMM



NOTES:

- 1. NOT DRAWN TO SCALE.
- 2. SEE BORING LOG MW-3
 FOR DETAILED SOE DESCRIPTION.

APPENDIX C
CERTIFIED ANALYTICAL RESULTS



SEP 2 0 .307

Durid Poole

Canonie Environmental 7901 Stoneridge Drive, Suite 100

Pleasanton, CA 94578
Attention: Dave Poole

Client Project ID: Sample Matric

First Sample #:

91-153-5, Garcia Ent., San Leandro Water

Analysis Method: EPA 5030/8015/8020

209-1818

Sampled: Received: Sep 11, 1992 Sep 11, 1992

Reported: Sep 22, 1992

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 209-1818 MW-3	Sample I.D. 209-1819 MW-1	Sample I.D. 209-1820 MW-2	Sample	Sample i.D. 209-1822 280
Purgeable Hydrocarbons	50	55	N.D.	N.D.	N.D.	N.D.
Benzene	0.50	2.9	2.6	N.D.	5.8	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	· N.D.	N.D.	N.D.
Chromatogram Pati	em:	Non-Gas < C8	Discrete Peak	••	Discrete Peak	••

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	9/16/92	9/16/92	9/16/92	9/16/92	9/16/92
Instrument Identification:	GCHP-1	GCHP-1	GCHP-1	GCHP-1	GCHP-1
Surrogate Recovery, %: (QC Limits = 70-130%)	93	83	80	120	107

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.

Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Christine L. Middleton Project Manager



Canonie Environmental 7901 Stoneridge Drive, Suite 100 Pleasanton, CA 94578

Client Project ID: Sample Matrix

91-153-5, Gercia Ent., San Leandro Sal

Sampled: Sep 11, 1992 Received: Sep 11, 1992

Attention: Dave Poole

First Sample #:

Analysis Method: EPA 5030/8015/8020 209-1823

Reported:

Sep 22, 1992

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample LD. 209-1823 SP Comp.
Purgeable Hydrocarbons	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Total Xylenes	0.0050	N.D.
Chromatogram Pat	iem:	••

Quality Control Data

Report Limit Multiplication Factor:

1.0

Date Analyzed:

9/16/92

Instrument Identification:

GCHP-1

Surrogate Recovery, %: (QC Limits = 70-130%)

87

Purgeable Hydrocarbons are quantitated against a fresh gesoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Christine & Mindeton Christine L. Middleton **Project Manager**



Canonie Environmental 7901 Stoneridge Drive, Suite 100 Pleasanton, CA 94578 Attention: Dave Poole

Sample Matric Analysis Method:

First Sample #:

Client Project ID: 91-153-5, Garcia Ent., San Leandro

Water EPA 3510/3520/8015

Sampled: Received: Reported:

Sep 11, 1992 Sep 11, 1992

Sep 22, 1992

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

209-1818

Analyte	Reporting Limit µg/L	Sample I.D. 209-1818 MW-3	Sample I.D. 209-1819 MW-1	Sample I.D. 209-1820 MW-2	Sample LD. 209-1821 Comp. H2O
Extractable Hydrocarbons	50	N.D.	N.D.	N.D.	130
Chromatogram Patte	em:	••	••	••	Discrete Peak

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0
Date Extracted:	9/14/92	9/14/92	9/14/92	9/14/92
Date Analyzed:	9/16/92	9/16/92	9/16/92	9/16/92
instrument Identification:	GCHP-5	GCHP-5	GCHP-5	GCHP-5
<u></u>				

Extractable Hydrocarbons are quantitated against a fresh diesel standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Christinis Meddletin Christine L Middleton Project Manager

2091818.CAN <3>

Çanonie Environmental Services Corp. 7901 Stoneridge Drive

Suite 100

Pleasanton, California 94588

Phone: 510-463-9117 FAX: 510-463-2981

91-153-05

Mr. Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Care Services
Agency
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

<u>Transmittal</u>

<u>Preliminary Site Assessment Report</u>

<u>Garcia Enterprises, Inc. Site</u>

San Leandro, California

Dear Mr. Seery:

November 11, 1992

Please find enclosed a copy of the Preliminary Site Assessment Report on the Garcia San Leandro Site for your review.

If you have any questions please call Jim Babcock or me at (510) 463-9117.

Very truly yours,

Kevin J. Betke, E.I.T.

Engineer

KJB/pm

cc: J.Babcock, Canonie Environmental Services Corp.

D.Poole, Canonie Environmental Services Corp.



7901 Stonericige Drive, Suite 100

Pleasanton, CA 94578 Attention: Dave Poole Sample Matric: Analysis Method: First Sample #:

Client Project ID: 91-153-5, Garcia Ent., San Leandro

Sol

EPA 3550/8015 209-1823 Sampled: Received: Sep 11, 1992 Sep 11, 1992

Reported:

Sep 22, 1992

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample LD. 209-1823 SP Comp.
Extractable		

Hydrocarbons

1.0

14

Chromatogram Pattern:

Non-Diseal Mix

> C17

Quality Control Data

Report Limit Multiplication Factor:

10

Date Extracted:

9/16/92

Date Analyzed:

9/18/92

instrument identification:

GCHP-5

Extractable Hydrocarbons are quantitated against a fresh diesel standard.

Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Christine L. Middleton

Project Manager



Client Project ID: 91-153-5, Garcia Ent., San Leandro

7901 Stoneridge Drive, Suite 100

Pleasanton, CA 94578 Attention: Dave Poole

QC Sample Group: 2091818-22

Reported: Sep 22, 1992

2001818.CAN <5>

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-	
	Benzene	Toluene	benzene	Xylenes
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 8020 T. Mescarenes µg/L Sep 16, 1992 MB091692	EPA 8020 T. Mescerenes #Q/L Sep 16, 1902 MB001602	µg/L	EPA 8020 T. Mascarenas µg/L Sep 16, 1992 MB091602
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	20
Conc. Matrix Spike:	12	9.5	12	24
Matrix Spike % Recovery:	120	95	120	120
Conc. Matrix Spike Dup.:	12	9.5	11	23
Matrix Spike Duplicate % Recovery:	120	95	110	115
Relative % Difference:	0.0	0.0	8.7	4.3

SEQUOIA ANALYTICAL

Christine L. Middleton
Project Manager

% Recovery:	Conc. of M.S Conc. of Sample	x 100	
	Spike Conc. Added	,	
Relative % Difference:	- Conc. of M.S Conc. of M.S.D.	x 100	
`	(Conc. of M.S. + Conc. of M.S.D.) / 2		



7901 Stoneridge Drive, Suite 100

Pleasanton, CA 94578 Attention: Dave Poole Client Project ID: 91-153-5, Garcia Ent., San Leandro

QC Sample Group: 2091818-21

Reported: Sep 22, 1992

QUALITY CONTROL DATA REPORT

ANALYTE

Diegol

Method:

EPA 8015

Analyst:

M. Tran

Reporting Units:

HO/L

Date Analyzed:

Sep 16, 1992

QC Sample #:

DBLK091492A

Sample Conc.:

N.D.

Spike Conc.

Added:

300

Conc. Matrix

Spike:

190

Matrix Spike

% Recovery:

63

Conc. Matrix

Spike Dup.:

200

Matrix Spike

Duplicate

% Recovery: 67

Relative

% Difference:

Project Manager

5.1

SEQUOIA ANALYTICAL

Christine Sheadleton

% Recovery:

Conc. of M.S. - Conc. of Semple

x 100

Spike Conc. Added

nive % Difference:

Conc. of M.S. - Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2 x 100

2091818.CAN <6>



Client Project ID: 91-153-5, Garcia Ent., San Leandro

7901 Stoneridge Drive, Suite 100 Pleasanton, CA 94578

Piessanton, CA 94578 Attention: Dave Poole

QC Sample Group: 209-1823

Reported: Sep 22, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	
	Diesel
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 8015 G.Lee mg/kg Sep 16, 1982 DBLK091892A
Sample Conc.:	N.D.
Spike Conc. Added:	15
Conc. Matrix Spike:	12
Matrix Spike % Recovery:	80
Conc. Matrix Spike Dup.:	14
Matrix Spike Duplicate % Recovery:	93
Relative % Difference:	15

SEQUOIA ANALYTICAL

Christine L Middleton
Project Manager

% Recovery:	Conc. of M.S Conc. of Sample Spike Conc. Added	x 100	
Relative % Difference:	Conc. of M.S Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100	

2091818.CAN <7>



Attention: Dave Poole

Client Project ID: 91-153-5, Garcia Ent., San Leandro

7901 Stoneridge Drive, Suite 100 Pleasanton, CA 94578

QC Sample Group: 209-1823

Reported: Sep 23, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	-		Ethyl-	·
	Benzene	Toluene	benzene	Xylenes
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 8020 T. Mascarenas mg/kg Sep 17, 1992 MB091792	EPA 8020 T. Mascarenae mg/kg Sep 17, 1902 MB001792	mg/kg	EPA 8020 T. Mescarenas mg/kg Sep 17, 1992 MB091792
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	20
Conc. Matrix Spike:	12	9.5	11	23
Matrix Spike % Recovery:	120	95	110	115
Conc. Matrix Spike Dup.:	12	10	12	24
Matrix Spike Duplicate % Recovery:	120	100	120	120
Relative % Difference:	0.0	5.1	8.7	4.3

SEQUOIA ANALYTICAL

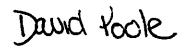
esterio Miadleton Christine L. Middleton **Project Manager**

% Recovery: Conc. of M.S. - Conc. of Sample x 100 Spike Conc. Added

- Relative % Difference: Conc. of M.S. - Conc. of M.S.D. x 100

(Conc. of M.S. + Conc. of M.S.D.) / 2

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680 Chesapeake Drive • Redwood City, CA 94063 (415) 364-9600 • FAX (415) 364-9233

SEP 2 1 1907

Canonie Environmental 7901 Stoneridge Drive, Suite 100

Pleasanton, CA 94578 Attention: David Poole Client Project ID: Sample Matrix:

Garcia Ent., 91-153-05 Soli

Analysis Method: EPA 5030/8015/8020

First Sample #: 209-0729

Sampled: Sep 1, 1992 Received:

Sep 2, 1992 Reported: Sep 15, 1992

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Limit mg/kg	Sample I.D. 209-0729 MW-3, 10.5-11*	Sample I.D. 209-0730 MW-3, 12-12.5	Sample I.D. 209-0731 MW-2, 11-11.5	Sample LD. 209-0732 MW-2, 12.5-13	Sample I.D. 209-0733 MW-1, 10.5-11	Sample I.D. 209-0734 MW-1, 11.5-12
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pat	tern:	••	••	•-		**	••

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	9/13/92	9/13/92	9/13/92	9/13/92	9/13/92	9/13/92
Instrument Identification:	GCHP-1	GCHP-1	GCHP-1	GCHP-1	GCHP-1	GCHP-1
Surrogate Recovery, %: (QC Limits = 70-130%)	113	117	117	113	113	120

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

stine & Middletin Christine L. Middleton Project Manager



Canonie Environmental 7901 Stoneridge Drive, Suite 100

Sample Matrix: Pleasanton, CA 94578 Analysis Method: Attention: David Poole

Client Project ID: Garcia Ent., 91-153-05

Sol EPA 3550/8015

First Sample #: 209-0729

Sampled: Received:

Sep 1, 1992 Sep 2, 1992

Reported: Sep 15, 1992

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 209-0729 MW-3, 10.5-11*	Sample L.D. 209-0730 MW-3, 12-12.5	Sample I.D. 209-0731 MW-2, 11-11.5	Sample I.D. 209-0732 MW-2, 12.5-13	Sample I.D. 209-0733 WW-1, 10.5-11	Sample I.D. 209-0734 MW-1, 11.5-12
Extractable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pat	ttern:	••	••	••	••	••	••

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	9/9/92	9/9/92	9/9/92	9/9/92	9/9/92	9/9/92
Date Analyzed:	9/9/92	9/9/92	9/10/92	9/10/92	9/10/92	9/10/92
Instrument Identification:	GCHP-5	GCHP-5	GCHP-5	GCHP-5	GCHP-5	GCHP-5

Extractable Hydrocarbons are quantitated against a fresh diesel standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL



Client Project ID: Garcia Ent., 91-153-05

7901 Stoneridge Drive, Suite 100

Pleasanton, CA 94578 Attention: David Poole

QC Sample Group: 2090729-34

Reported: Sep 15, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Takuene	Ethyl- benzene	Xylenes	Diesel
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 8020 T. Mascarenas · mg/kg Sep 13, 1992 MB090992	EPA 8020 T. Mescarenas mg/kg Sep 13, 1992 MB090992	mg/kg	EPA 8020 T. Mascarenas mg/kg Sep 13, 1992 MB000992	EPA 8015 C. Lee mg/kg Sep 9, 1992 DBLK090992
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	· 20	15
Conc. Matrix Spike:	10	11	ti	22	11
Matrix Spike % Recovery:	100	110	110.	110	73
Conc. Matrix Spike Dup.:	11	10	12	24	11
Matrix Spike Duplicate % Recovery:	110	100	120	120	73
Relative % Difference:	9.5	9.5	8.7	8.7	0.0

SEQUOIA ANALYTICAL

Christine L Middleton Project Manager

% Recovery:	Conc. of M.S Conc. of Sample Spike Conc. Added	x 100				
Relative % Difference:	Conc. of M.S Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100				

2090729.CAN <3>

(See Reverse for Instructions) NO.																								
PROJECT NUMBER 91-153-05 RECORDER JAPA TORS				WPL	APLERS SINA IM								SAMPLE CONTAINER DESCRIPTION CODES A 40-ml VOA VIO Gloss Liter E Brees Lites C. Plantic 500-ml F. Other D. Plantic Liter						IPLE DE ouind Wate risco Wate achete neeste IVSodintani	r F. Oli r G. Waste H. Blank/Sp 1. Other	G. Wests H. Blank/Spike I. Other		TAT CODES 1. Standard 2. 49 Hour 3. 84 Hour TONY	
DATE TIME		PLE ID		Service Constitution of the Constitution of th	NUMBER OF CONTAINERS AND PRESERVISION 2		10 H			SIS	REQU	QUESTED		TAT Persons family comes		Service Service & 6*C (Service) No YOA Assessment	S NC	OTES	ASSIGNED BOTTLE NUMBERS	SAI CONI UI	MPLE IDITION IPON CEIPT		NOTES	
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HEALTH CARE SERVICES

AGENCY DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

May 22, 1992

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

Mr. James Babcock, Ph.D. Canonie Environmental Services Corporation 7901 Stoneridge Drive, Suite 100 Pleasanton, CA 94588

RE: GARCIA ENTERPRISES, 16211 E. 14TH STREET, SAN LEANDRO; PRELIMINARY SITE ASSESSMENT

Dear Dr. Babcock:

Thank you for the recent submittal of the April 29, 1992 Canonie Environmental Services Corporation (CESC) addendum to the March 1992 CESC preliminary site assessment (PSA) work plan. The cited addendum was submitted to respond to comments generated following the Department's review of the March 1992 work plan.

This work plan has been approved as amended, with the following changes:

- 1) Trip or field blanks are required for volatile organic analyses (VOA) of water. A minimum of one (1) such trip blank is required for each sampling episode.
- 2) Please be certain duplicate VOA samples are collected from each well sampled.

Thank you again for your timely response. Please contact me at 510/271-4320 when field work has been scheduled to begin.

Sincerely,

Scott O. Seery, CHMM Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health Gil Jensen, Alameda County District Attorney's Office Rich Hiett, RWQCB Howard Hatayama, DTSC Jim Ferdinand, Eden Consolidated Fire District Anthony Garcia, Garcia Enterprises