

DAVID D. BOHANNON ORGANIZATION

*Community Developer* · 60 HILLSDALE MALL · SAN MATEO, CALIFORNIA 94403-3497  
FAX 415 573-5457 TELEPHONE 415 345-8222

July 28, 1997

SID  
SSS  
JTS

ENVIRONMENTAL  
PROTECTION  
97 JUL 29 AM 10:31

Ms. Juliet Shin  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re.: David D. Bohannon Organization  
Second Quarter 1997 Monitoring and Sampling Report  
575 Paseo Grande, San Lorenzo, CA**

Dear Ms. Shin:

Enclosed for your review is the Second Quarter 1997 Monitoring and Sampling Report prepared for the above referenced facility. The report summarizes the groundwater monitoring and sampling activities conducted by SECOR International Incorporated (SECOR) from April 1 through June 30, 1997.

David D. Bohannon Organization had reviewed and agrees with the Second Quarter 1997 Monitoring and Sampling Report prepared by Secor. Should you have any questions, please feel free to contact me at 415.345.8222.

Sincerely,

  
Mike Uepsen  
Director of Construction

Enclosure

July 24, 1997

Mr. Mike Jepsen  
David D. Bohannon Organization  
60 Hillsdale Mall  
San Mateo, California 94403-3497

ENVIRONMENTAL  
PROTECTION  
97 JUL 29 AM 10:31

**RE: Second Quarter 1997 Monitoring and Sampling Report  
575 Paseo Grande  
San Lorenzo, California**

Dear Mr. Jepsen:

SECOR International Incorporated (SECOR) is pleased to present the results of the second quarter 1997 activities conducted at 575 Paseo Grande (the Site) in San Lorenzo, California (Figures 1 and 2). This report presents the results of the quarterly sampling event conducted on June 12, 1997. The second quarter 1997 activities were conducted pursuant to Alameda County Environmental Health Services Department's (ACEHSD's) letter dated December 4, 1996. The second quarter 1997 scope of work included sampling groundwater monitor wells MW-1, MW-2, and MW-3 for gasoline range petroleum hydrocarbons (TPHg), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). David D. Bohannon Organization, the current owners of the Site, plan to redevelop the property into a parking lot and retail business development. Construction is expected to begin the first quarter of 1998.

## BACKGROUND

Over the last 25 years, the Site has been used as an asphalt paved parking area located in a commercial area zoned as C1. The Site was a gasoline station prior to 1969. Little information is known about the site history related to its use as a gasoline service station. In anticipation of property redevelopment, initial investigation activities were conducted in March 1995 to determine if out-of-service gasoline service station underground equipment remained on-site. The work was conducted by Twining Laboratories, Inc. (TLI), as documented in their letter report dated April 15, 1995. The work conducted included a magnetometer survey followed by an exploratory excavation. In summary, the work conducted identified underground gasoline service station equipment which include what appeared to be the former tank pit, approximately 110 feet of fuel delivery system piping, and a grease sump and/or hydraulic lift pit in an area which may have been the former service garage (Figure 2). Field evidence and one soil sample indicated the potential for soil contamination along the piping runs, around the grease sump, and around the inferred location of the former tank pit. Characterization of the magnitude and extent of potential soil contamination was not conducted during initial investigation activities.

BOHAN-02.L05 - 6.1  
July 24, 1997  
SECOR Job No. 70074-001-02

Mr. Mike Jepsen  
David D. Bohannon Organization  
July 24, 1997  
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In June 1995, SECOR conducted additional activities at the Site which included removal of the former underground storage tank (UST) system piping and the former grease sump, and characterization soil sampling along piping lines and around the former grease sump and former tank pit areas. This work was summarized in SECOR's letter report dated June 29, 1995. The characterization data from this investigation indicated that there were two areas of concern (AOCs) at the Site. These areas were the former grease sump area and the former gasoline distribution system area. SECOR subsequently conducted excavation activities in the vicinity of the two AOCs. The soil excavated from the former sump area was transported off-site for disposal. The soil generated from the UST excavation was treated by means of aeration. Three groundwater monitor wells (MW-1, MW-2, and MW-3) were installed during the investigation activities to evaluate the degree to which the groundwater had been impacted. The results of the soil characterization and groundwater monitoring activities are reported in SECOR's Report of Interim Remedial Actions dated June 4, 1996, and Fourth Quarter 1996 Monitoring and Sampling Report dated November 26, 1996.

#### SCOPE OF WORK

Quarterly groundwater sampling activities were conducted at the Site pursuant to the request of the Alameda County Health Care Services Agency. The three Site monitoring wells (MW-1, MW-2, and MW-3), were gauged for depth-to-water and sampled on June 12, 1997. Each of the three wells were purged of at least three casing volumes of water prior to sampling. A copy of the field data sheets are presented in Attachment 1. The groundwater samples were submitted to Superior Analytical Laboratory, a California state-certified laboratory, for TPHg and BTEX analysis by U.S. Environmental Protection Agency (EPA) Methods 8015 (modified) and 8020, respectively.

#### GROUNDWATER ELEVATION RESULTS

Groundwater elevation data collected to date is summarized in Table 1. The average depth-to-water at the Site on June 12, 1997 was 6.61 feet below grade. A potentiometric surface map showing the interpreted groundwater surface elevation on June 12, 1997 is presented as Figure 3. The average hydraulic gradient across the Site on June 12, 1997, was approximately 0.002 feet per foot and was toward the southwest (Figure 3). As indicated on Figure 3, these results are consistent with flow direction results obtained during the prior monitoring events (April 1997 and October 1996). As mentioned in previous quarterly reports, the flow direction beneath the Site is likely to be tidally influenced by the San Francisco Bay. Regardless of tidal influences, the predominant groundwater flow direction beneath the Site is presumably towards the west to southwest.

Mr. Mike Jepsen  
David D. Bohannon Organization  
July 24, 1997  
Page 3

## GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results from samples collected to date are summarized in Table 2 and sampling field data sheets are included in Attachment 1. Field personnel observed a sheen present on the groundwater in monitor wells MW-2 and MW-3. TPHg was detected in samples collected from the three Site wells (MW-1, MW-2, and MW-3) at 160 micrograms per liter ( $\mu\text{g}/\ell$ ), 8,200  $\mu\text{g}/\ell$ , and 29,000  $\mu\text{g}/\ell$ , respectively. Benzene was detected in samples collected from monitor wells MW-2 and MW-3 at 440  $\mu\text{g}/\ell$  and 2,700  $\mu\text{g}/\ell$ , respectively. Toluene was detected in samples collected from monitor wells MW-2 and MW-3 at 52  $\mu\text{g}/\ell$  and 160  $\mu\text{g}/\ell$ , respectively. Ethylbenzene and xylenes were detected in the samples collected from all three monitor wells at up to 940  $\mu\text{g}/\ell$  and 500  $\mu\text{g}/\ell$ , respectively. A copy of the laboratory report and chain-of-custody is included in Attachment 2.

If you have any questions or require more information, please call us at (510) 686-9780.

Sincerely,

### SECOR International Incorporated



Kirsten L. Wagle  
Staff Engineer



Paul D. Horton, R.G.  
Principal Hydrogeologist

cc: Ms. Juliet Shin, Alameda County Health Care Services Agency

Figure 1 - Site Location Map

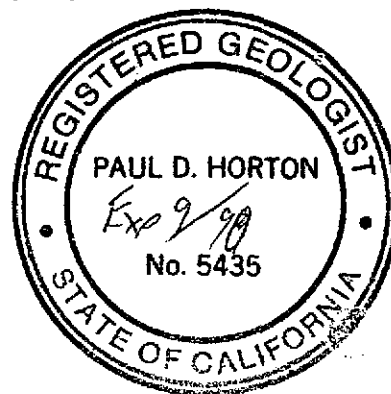
Figure 2 - Site Plan

Figure 3 - Potentiometric Surface Map

Table 1 - Groundwater Elevation Data

Table 2 - Groundwater Analytical Results - TPHg and BTEX

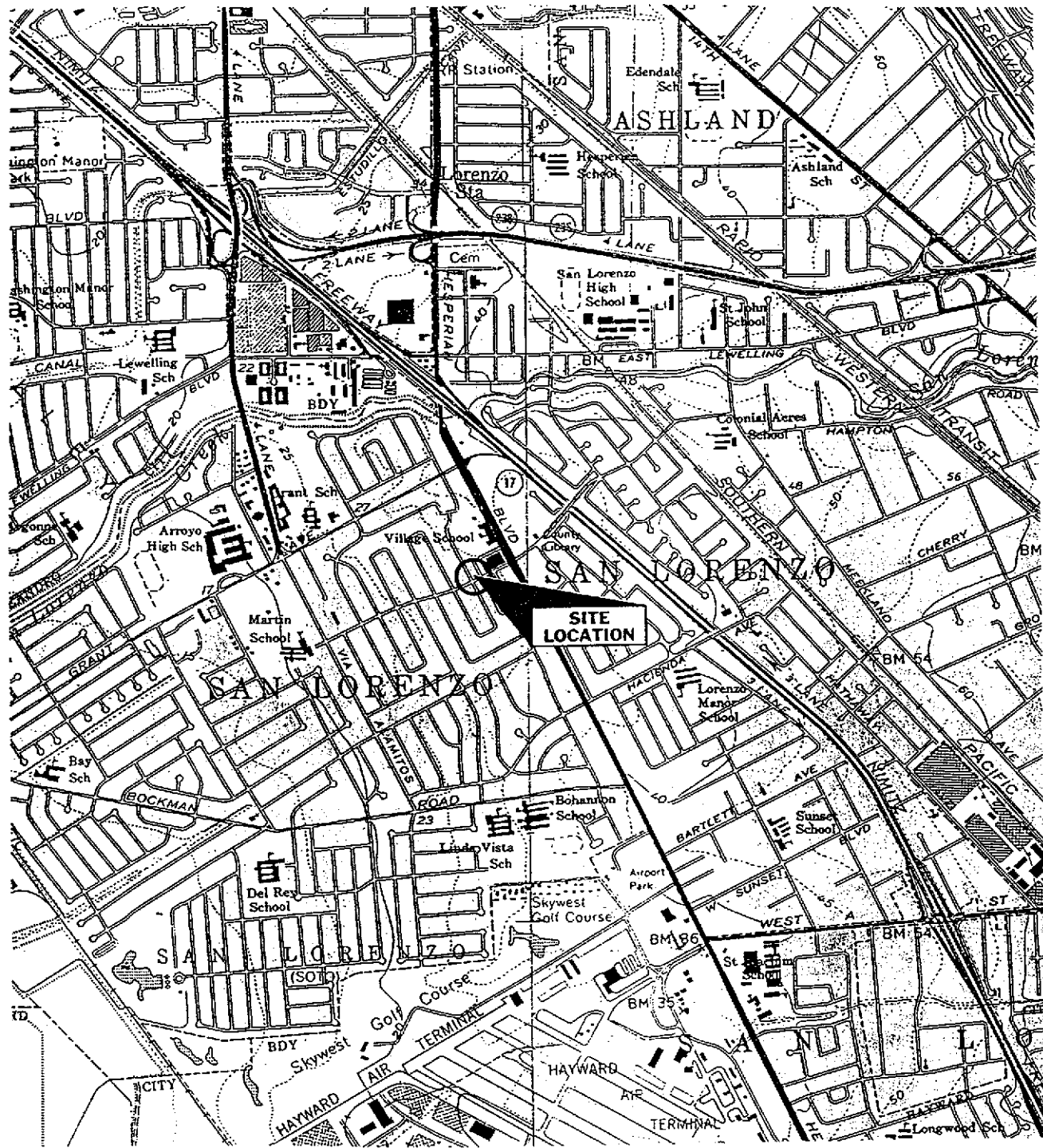
Attachments: 1 - Field Data Sheets  
2 - Laboratory Analytical Reports - Groundwater



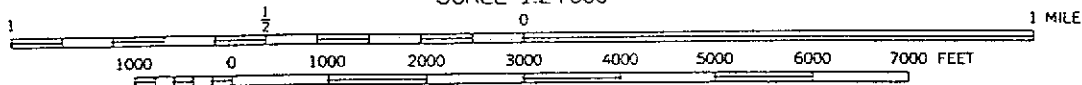
**SAN LEANDRO AND HAYWARD QUADRANGLE**

California

7.5 Minute Series (Topographic)



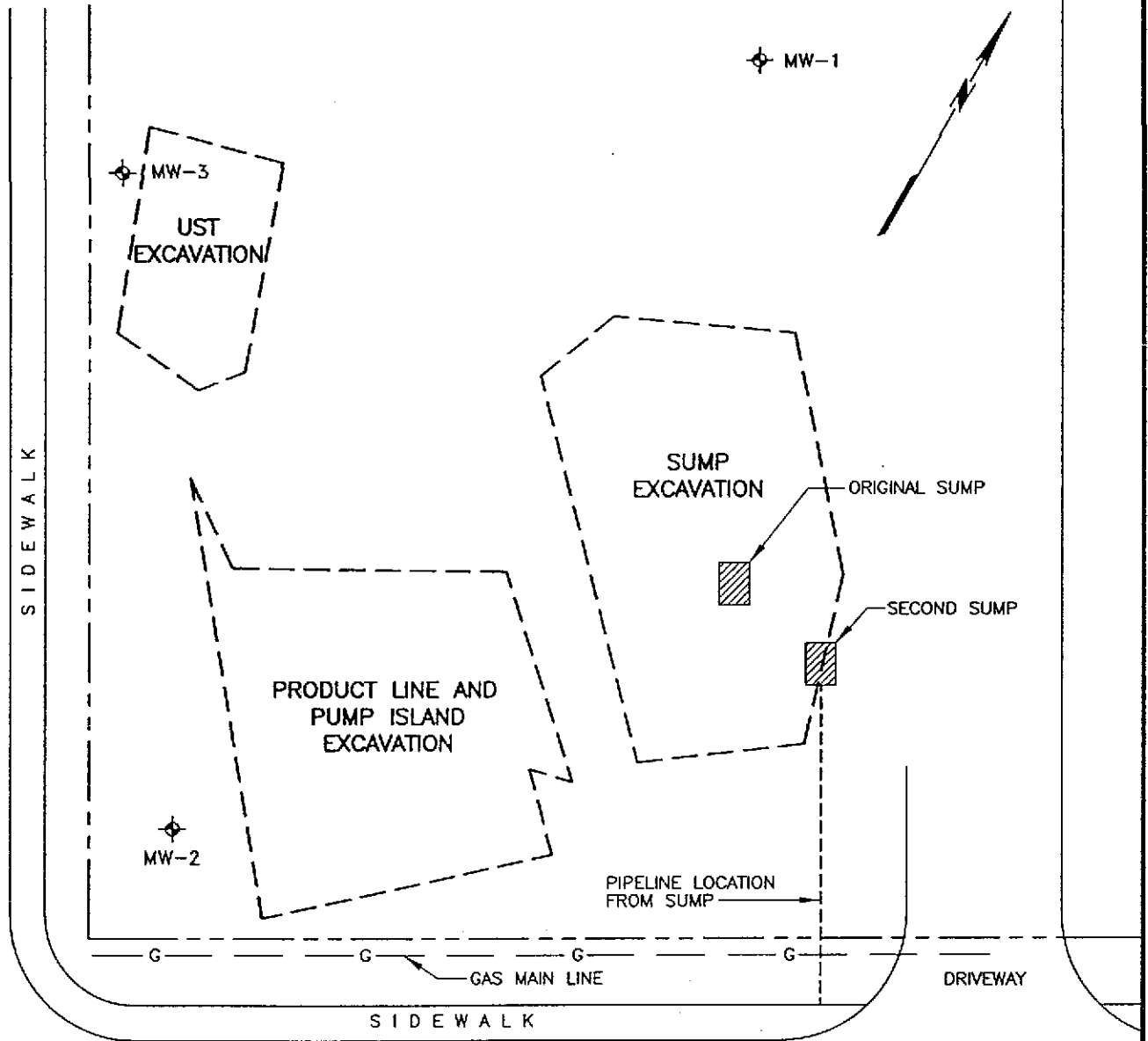
SCALE 1:24000



DRAFTED BY: <b>JLH</b>	CHECKED BY: <b>SM</b>	<b>PROJECT NO. 70074-001</b>	<b>FIGURE 1</b>	<b>SECOR</b> 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE: <b>06-16-95</b>	REV. DATE:			
FILE NAME: <b>slorenz.f01</b>				

PASEO LARGAVISTA

SIDEWALK



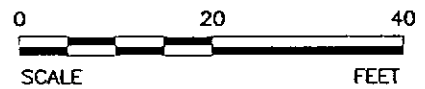
PASEO GRANDE

**LEGEND:**

⊕ MW-1 GROUNDWATER MONITORING WELL

----- LIMITS OF FORMER EXCAVATION

----- APPROXIMATE PROPERTY BOUNDARY



SOURCE: NOLTE AND ASSOCIATES, INC., DATED 1996.

199704-280928 X:\JCS\196\BOHANNON\SNLORENZ\SITEPLAN

**SECOR**  
INTERNATIONAL  
INCORPORATED

DRAWN	CCR
APPR	KW
DATE	30APR97
JOB NO.	70074-001-02

**FIGURE 2**  
DAVID D. BOHANNON ORGANIZATION  
575 PASEO GRANDE  
SAN LORENZO, CALIFORNIA

**SITE PLAN**

PASEO ARGAVISTA

SIDEWALK

MW-3  
(19.97)

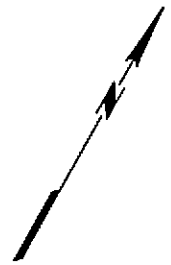
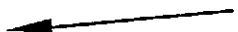
MW-2  
(19.97)

MW-1  
(20.21)

20.00

20.10

20.20



G G G G

GAS MAIN LINE

DRIVEWAY

SIDEWALK

PASEO GRANDE

**LEGEND:**

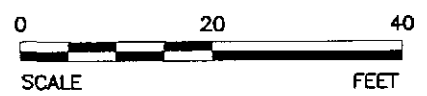
⊕ MW-1 GROUNDWATER MONITORING WELL

20.20 GROUNDWATER ELEVATION CONTOUR (JUNE 12, 1997) (FEET ABOVE MEAN SEA LEVEL)

(19.97) GROUNDWATER ELEVATION (JUNE 12, 1997) (FEET ABOVE MEAN SEA LEVEL)

← APPROXIMATE GROUNDWATER FLOW DIRECTION

--- APPROXIMATE PROPERTY BOUNDARY



SOURCE: NOLTE AND ASSOCIATES, INC., DATED 1996.

199707.190920 X:\1\JOBS\196\BOHANNON\SNLORENZ\SNLORE06

**SECOR**  
INTERNATIONAL  
INCORPORATED

DRAWN	CCR
APPR	KW
DATE	21JUL97
JOB NO.	70074-001-02

**FIGURE 3**  
DAVID D. BOHANNON ORGANIZATION  
575 PASEO GRANDE  
SAN LORENZO, CALIFORNIA  
**POTENTIOMETRIC SURFACE MAP**  
**JUNE 12, 1997**

**Table 1**  
**Groundwater Elevation Data**  
**575 Paseo Grande**  
**San Lorenzo, California**

Date	MW-1			MW-2			MW-3			FLOW DIRECTION
	TOC (ft msl)	DTW (ft bTOC)	ELEV (ft msl)	TOC (ft msl)	DTW (ft bTOC)	ELEV (ft msl)	TOC (ft msl)	DTW (ft bTOC)	ELEV (ft msl)	
17-May-96	27.11	5.65	21.46	26.73	5.56	21.17	26.15	4.39	21.76	southeast
8-Oct-96		7.47	19.64		7.15	19.58		6.82	19.33	west
1-Apr-97		6.27	20.84		6.61	20.12		5.53	20.62	south
12-Jun-97		6.90	20.21		6.76	19.97		6.18	19.97	southwest

TOC = Top of well casing

DTW = Depth to Water

ELEV. = Water table elevation above MSL

ft msl = Feet above mean sea level

ft bTOC = Feet below top of casing



**Table 2**  
**Groundwater Analytical Results - TPHg and BTEX**  
**575 Paseo Grande**  
**San Lorenzo, California**

	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
<b>MW-1</b>					
17-May-96	1100	ND (<0.5)	8.7	7.4	17
8-Oct-96	120	ND (<0.5)	ND (<0.5)	2.7	ND (<0.5)
1-Apr-97	550	ND (<0.5)	ND (<0.5)	7.6	6.6
12-Jun-97	160	ND (<0.5)	ND (<0.5)	2.9	1.7
<b>MW-2</b>					
17-May-96	23000	900	330	650	1500
8-Oct-96	8400	530	ND (<50)	400	360
1-Apr-97	7600	470	64	210	250
12-Jun-97	8200	440	52	190	190
<b>MW-3</b>					
17-May-96	6700	140	45	210	180
8-Oct-96	1800	2700	240	910	970
1-Apr-97	27000	520	50	520	450
12-Jun-97	29000	2700	160	940	500

TPHg = Total petroleum hydrocarbons quantified as gasoline

ug/L = Micrograms per liter

ND = Below laboratory detection limits (detection limit indicated in parentheses)

***ATTACHMENT 1***

***Field Data Sheets***



**SECOR International Inc.**  
**WATER SAMPLE FIELD DATA SHEET**

PROJECT #: 70094-001      PURGED BY: ML      WELL I.D.: MW-3  
 CLIENT NAME: Dohannon      SAMPLED BY: ML      SAMPLE I.D.: MW-3  
 LOCATION: SAW 608120      QA SAMPLES: \_\_\_\_\_

DATE PURGED 6/12/93      START (2400hr) 9:42      END (2400hr) 9:49  
 DATE SAMPLED 6/12/93      SAMPLE TIME (2400hr) 10:00

SAMPLE TYPE:      Groundwater       Surface Water \_\_\_\_\_      Treatment Effluent \_\_\_\_\_      Other \_\_\_\_\_

CASING DIAMETER:      2"       3" \_\_\_\_\_      4" \_\_\_\_\_      5" \_\_\_\_\_      6" \_\_\_\_\_      8" \_\_\_\_\_      Other \_\_\_\_\_  
 Casing Volume: (gallons per foot)      (0.17)      (0.38)      (0.67)      (1.02)      (1.50)      (2.60)      ( )

DEPTH TO BOTTOM (feet) = 12.85      CASING VOLUME (gal) = 1.13  
 DEPTH TO WATER (feet) = 6.18      CALCULATED PURGE (gal) = 3.40  
 WATER COLUMN HEIGHT (feet) = 6.67      ACTUAL PURGE (gal) = 3.80

**FIELD MEASUREMENTS**

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6/12</u>	<u>9:46</u>	<u>1</u>	<u>68.5</u>	<u>984</u>	<u>7.62</u>	<u>black</u>	<u>NO TRACE</u>
<u>"</u>	<u>9:47</u>	<u>2</u>	<u>68.4</u>	<u>948</u>	<u>7.50</u>	<u>"</u>	<u>"</u>
<u>"</u>	<u>9:49</u>	<u>3.50</u>	<u>68.5</u>	<u>854</u>	<u>7.40</u>	<u>"</u>	<u>"</u>

**SAMPLE INFORMATION**

SAMPLE DEPTH TO WATER: \_\_\_\_\_      SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES NO      ANALYSES: \_\_\_\_\_

ODOR: SMELL LIKE GAS      SAMPLE VESSEL / PRESERVATIVE: \_\_\_\_\_

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Bailer ( <u>  </u> PVC or <u>  </u> disposable)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated _____	<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated _____
Other: _____		Other: _____	
Pump Depth: _____			

WELL INTEGRITY: \_\_\_\_\_      LOCK#: NO LOCK

REMARKS: A LOT of SMOG in WATER

SIGNATURE: ML      Page 1 of 1

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 70074-001  
 CLIENT NAME: BOHANNON  
 LOCATION: SAJ LONG 20--

PURGED BY: NA  
 SAMPLED BY: NA

WELL I.D.: MW-2  
 SAMPLE I.D.: MW-2  
 QA SAMPLES: \_\_\_\_\_

DATE PURGED 6/12/97 START (2400hr) 9:20 END (2400hr) 9:29  
 DATE SAMPLED 6/12/97 SAMPLE TIME (2400hr) 9:40

SAMPLE TYPE: Groundwater 1 Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2" 1 3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 14.92 CASING VOLUME (gal) = 1.39  
 DEPTH TO WATER (feet) = 6.76 CALCULATED PURGE (gal) = 4.16  
 WATER COLUMN HEIGHT (feet) = 8.14 ACTUAL PURGE (gal) = 4.50

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6/12	9:24	1.5	70.2	1103	7.61	Brown	no sample
"	9:27	3	70.6	1126	7.45	4	4
"	9:29	4.5	70.4	1127	7.39	4	"

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES NO ANALYSES: \_\_\_\_\_

ODOR: small lime gas SAMPLE VESSEL / PRESERVATIVE: \_\_\_\_\_

PURGING EQUIPMENT

SAMPLING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC) 1  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (    PVC or    disposable) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: NGAD WJW (W) -- LOCK#: YES

REMARKS: Some SHBB in water --

SIGNATURE: NA Page 1 of 1

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 70074-001 PURGED BY: ML WELL I.D.: MW-1  
 CLIENT NAME: SOHANO SAMPLED BY: ML SAMPLE I.D.: MW-1  
 LOCATION: SAW LONGENZO QA SAMPLES: \_\_\_\_\_

DATE PURGED 6/12/97 START (2400hr) 8:58 END (2400hr) 9:06  
 DATE SAMPLED 6/12/97 SAMPLE TIME (2400hr) 9:15

SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 14.96 CASING VOLUME (gal) = 1.37  
 DEPTH TO WATER (feet) = 6.90 CALCULATED PURGE (gal) = 4.11  
 WATER COLUMN HEIGHT (feet) = 8.06 ACTUAL PURGE (gal) = 4.50

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6/12</u>	<u>9:01</u>	<u>1.5</u>	<u>70.9</u>	<u>913</u>	<u>7.06</u>	<u>Brown</u>	<u>NO DATA</u>
<u>"</u>	<u>9:03</u>	<u>3</u>	<u>70.6</u>	<u>903</u>	<u>7.44</u>	<u>"</u>	<u>"</u>
<u>"</u>	<u>9:06</u>	<u>4.5</u>	<u>70.3</u>	<u>853</u>	<u>7.48</u>	<u>"</u>	<u>"</u>

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES NO ANALYSES: \_\_\_\_\_

ODOR: \_\_\_\_\_ SAMPLE VESSEL / PRESERVATIVE: \_\_\_\_\_

PURGING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC)   
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_

Pump Depth: \_\_\_\_\_

SAMPLING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC or  disposable) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_

WELL INTEGRITY: CASING TOO HIGH - UNABLE TO CAP. LOCK#: NO LOCK

REMARKS: \_\_\_\_\_

SIGNATURE: ML

# SECOR Chain-of Custody Record

Field Office: Concord  
 Address: 1390 Wilson Pass Rd.  
Concord, CA

Additional documents are attached, and are a part of this Record.  
 Job Name: David G. Johnson Organization  
 Location: San Lorenzo, CA

Project # 70074-001-02 Task # 009  
 Project Manager Dw. Mason  
 Laboratory Supson  
 Turnaround Time Standard

Analysis Request

Sampler's Name D. Averis  
 Sampler's Signature [Signature]

Sample ID	Date	Time	Matrix	HCID	TPH/g/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
MW-1	6/7/93	9:15	W		X												3
MW-2	"	9:40	"		X												3
MW-3	"	10:00	"		X												3

Special Instructions/Comments:

Relinquished by: \_\_\_\_\_  
 Sign [Signature]  
 Print D. Mason  
 Company SECON  
 Time \_\_\_\_\_ Date 6/12/93

Received by: \_\_\_\_\_  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

Sample Receipt  
 Total no. of containers: \_\_\_\_\_  
 Chain of custody seals: \_\_\_\_\_  
 Rec'd. in good condition/cold?   
 Conforms to record:

Relinquished by: \_\_\_\_\_  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

Received by: \_\_\_\_\_  
 Sign [Signature]  
 Print Polly Farrow  
 Company SECON  
 Time 4:20 Date 6/12/93

Client: SECON  
 Client Contact: Kinsley  
 Client Phone: (510) 686-9920

***ATTACHMENT 2***

***Laboratory Analytical Reports***





# Superior

## Analytical Laboratory

SECOR  
1390 WILLOW PASS RD, STE. 360  
CONCORD, CA 94520

Date: June 19, 1997

Attn: DAN MADSEN

Laboratory Number : 22865      Project Number/Name : 70074-001-02 TASK# 009  
Facility/Site : DAVID B. BOHANON ORGANIZATION  
SAN LORENZO, CA

Dear DAN MADSEN:

Attached is Superior Analytical Laboratory report for the samples received on June 12, 1997. This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after July 12, 1997, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,

A handwritten signature in black ink, appearing to read 'Afsaneh Salimpour', is written over the typed name.

Afsaneh Salimpour  
Project Manager



# Superior

## Analytical Laboratory

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### CASE NARRATIVE

SECOR

Project Number/Name: 70074-001-02 TASK# 009

Laboratory Number: 22865

#### Sample Receipt

Three water samples were received by  
Superior Analytical Laboratory on June 12, 1997.

Cooler temperature was 6.7°C

No abnormalities were noted with sample receiving.

#### Sample Analysis

The samples were analyzed for methods 8015M and 8020.

NOTE: Reproduction of this report is permitted only in its entirety.

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Customer Service: (800) 521-6109 • Laboratory: (510) 313-0850 • Facsimile: (510) 229-0916  
Post Office Box 2648 • 835 Arnold Drive • Suite #106 • Martinez, California 94553  
1555 Burke Street • Suite A • San Francisco, California 94124



# Superior

## Analytical Laboratory

SECOR  
Attn: DAN MADSEN

Project 70074-001-02 TASK# 009  
Reported on June 19, 1997

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

Chronology

Laboratory Number 22865

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-1	06/12/97	06/12/97	06/17/97	06/17/97	DF172.37	01
MW-2	06/12/97	06/12/97	06/17/97	06/17/97	DF172.37	02
MW-3	06/12/97	06/12/97	06/17/97	06/17/97	DF172.37	03

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
DF172.37-01	Method Blank	MB	Water	06/17/97	06/17/97
DF172.37-02	Laboratory Spike	LS	Water	06/17/97	06/17/97
DF172.37-03	MW-1 (6-97)	MS 22860-01	Water	06/17/97	06/17/97
DF172.37-04	MW-1 (6-97)	MSD 22860-01	Water	06/17/97	06/17/97



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

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
22865-01	MW-1	Water	1.0	-
22865-02	MW-2	Water	5.0	-
22865-03	MW-3	Water	50.0	-

### RESULTS OF ANALYSIS

Compound	22865-01		22865-02		22865-03	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
Gasoline Range	160	50	8200	250	29000	2500
Benzene	ND	0.5	440	2.5	2700	25
Toluene	ND	0.5	52	2.5	160	25
Ethyl Benzene	2.9	0.5	190	2.5	940	25
Total Xylenes	1.7	0.5	190	2.5	500	25

>> Surrogate Recoveries (%) <<  
Trifluorotoluene (SS)

86                      110                      89



**Superior**

**Analytical Laboratory**

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

Quality Assurance and Control Data

Laboratory Number: 22865  
Method Blank(s)

DF172.37-01  
Conc. RL  
ug/L

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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 (SS) 101



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

Quality Assurance and Control Data

Laboratory Number: 22865

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
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For Water Matrix (ug/L)  
 DF172.37 02 / - Laboratory Control Spikes

Gasoline Range		2000	2200	110	65-135	
Benzene		20	20	100	65-135	
Toluene		20	20	100	65-135	
Ethyl Benzene		20	20	100	65-135	
Total Xylenes		60	61	102	65-135	

>> Surrogate Recoveries (%) <<  
 Trifluorotoluene (SS)

97 50-150

For Water Matrix (ug/L)  
 DF172.37 03 / 04 - Sample Spiked: 22860 - 01

Gasoline Range	ND	2000	2100/2100	105/105	65-135	0
Benzene	ND	20	20/20	100/100	65-135	0
Toluene	ND	20	20/20	100/100	65-135	0
Ethyl Benzene	ND	20	20/20	100/100	65-135	0
Total Xylenes	ND	60	61/61	102/102	65-135	0

>> Surrogate Recoveries (%) <<  
 Trifluorotoluene (SS)

85/86 50-150



**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)

# SECOR Chain-of Custody Record

Field Office: CONCORD  
 Address: 1390 Willow Pass Rd.  
CONCORD, CA

Additional documents are attached, and are a part of this Record.  
 Job Name: David B. Bohannon Organization  
 Location: SAN CONCORD, CA

Project # 70074-001-02 Task # 009  
 Project Manager Law Moss  
 Laboratory Supmon  
 Turnaround Time Spanoano

Sampler's Name D. Navarro  
 Sampler's Signature [Signature]

### Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
MW-1	6/12/97	9:15	W		X												3
MW-2	"	9:40	"		X												3
MW-3	"	10:00	"		X												3

Special Instructions/Comments:  
 Please Initial: [Signature]  
 Samples Stored in ice: yes - U.T.  
 Appropriate containers: yes  
 Samples preserved: yes  
 VOA's without headspace: yes  
 Comments: \_\_\_\_\_

Relinquished by: \_\_\_\_\_  
 Sign [Signature]  
 Print D. Navarro  
 Company SECOR  
 Time \_\_\_\_\_ Date 6/12/97

Relinquished by: \_\_\_\_\_  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

Received by: \_\_\_\_\_  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

Received by: [Signature]  
 Sign [Signature]  
 Print Polly Farrow  
 Company SM  
 Time 11:20 Date 6/12/97

Sample Receipt

Total no. of containers: \_\_\_\_\_  
 Chain of custody seals: \_\_\_\_\_  
 Rec'd. in good condition/cold: \_\_\_\_\_  
 Conforms to record: \_\_\_\_\_

Client: SECOR  
 Client Contact: Kinsler  
 Client Phone: (510) 886-9780

SECOR CUSTREC Rev. 1/95