SECOR International Incorporated

1390 Willow Pass Road, Suite 360 CONCORD, CALIFORNIA 94520



phone (510) 686-9780 fax (510) 686-3099

TRANSMITTAL MEMORANDUM

To:

NAME

COMPANY

Juliet Shin

Alameda County

From:

Steve McCabe

Subject:

Quarterly Report

575 Paseo Grande, San Lorenzo, California

Date:

November 25, 1996

Attached is the Quarterly Report for the Bohannon Site located at 575 Paseo Grande per your request. Results from the sampling of the soil aeration pile are also included. Do not hesitate to call me if you have any questions or require additional information.



November 26, 1996

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

RE: Fourth Quarter 1996 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 fourth quarter 1996 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 October 8, 1996, as well as the results of soil samples collected from the aerated soil pile which was generated from excavated soil from the former underground storage tank (UST) area.

BACKGROUND

Over the last 25 years, the site has been used as an asphalt paved parking area. The site was a gasoline station prior to 1969. Little information is known about the site history related to it's 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.

In June 1995, SECOR conducted additional activities at the Site which included removal of the former 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 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.

SCOPE OF WORK

Groundwater Sampling - Quarterly groundwater sampling activities were initiated 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 October 8, 1996. 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 Curtis and Thompkins Analytical Laboratories, a California state-certified laboratory, for the following analyses: total petroleum hydrocarbons as gasoline (TPHg) and heavy chain hydrocarbons (TPH) by modified U.S. Environmental Protection Agency (EPA) Method 8015; benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020; halogenated volatile organic compounds (HVOCs) by EPA Method 8010; and semi-volatile organic compounds (SVOCs) analyses by EPA Method 8270. Additionally, one of the groundwater samples was analyzed for total dissolved solids (TDS) to determine whether the groundwater beneath the site is potable. Copies of the certified analytical reports are presented in Attachment 2.

Aeration Soil Pile Sampling - In June 1996, approximately 550 cubic yards of excavated soil from the former UST area began treatment by means of aeration. The soil was transferred from a stockpile on-Site to 16015 Via Arriba (additional property owned by the David D. Bohannon Organization which is located across the street [Paseo Grande] from the Site) where it was spread out in a layer approximately 1-foot thick. The soil covered an area of approximately 14,500 square feet. The treatment area was enclosed with a locking chain link fence. The soil was aerated in accordance with Bay Area Air Quality Management District Regulation 8, Rule 40 regarding the uncontrolled emission of volatile organics from soil aeration. The soil was turned weekly using a backhoe equipped with a ripping tool for two weeks to enhance and expedite the aeration process. On August 22, 1996, 30 soil samples were collected (approximately one soil sample for every 20 cubic yards) from the aerated soil to confirm that complete aeration of the soil had been achieved. Samples were transferred to Superior Analytical Laboratory, a state-certified laboratory, for TPHg and BTEX analysis by EPA Methods 8015 (modified) and 8020, respectively. Copies of the certified laboratory analytical reports are included in Attachment 3. After receiving laboratory results which confirmed that TPHg and BTEX constituents were not present in the soil, the soil was used as fill material on the 16015 Via Arriba property. The soil was compacted to a minimum of 90 percent compaction during the week of October 21, 1996. Compaction test results are included in Attachment 4.

GROUNDWATER ELEVATION RESULTS

Groundwater elevation data collected on October 8, 1996, is summarized in Table 1. The average depth-to-water at the Site on October 8, 1996, was 7.15 feet below grade. A potentiometric surface map showing the interpreted groundwater surface elevation on October 8, 1996, is presented as Figure 3. The average hydraulic gradient across the Site on October 8, 1996, was approximately 0.005 feet per foot and was toward the west (Figure 3). These results are inconsistent with flow direction results obtained during the prior monitoring event (May 1996). However, elevations obtained during the May 1996 monitoring event were collected shortly after monitoring well installation, and therefore, the groundwater elevations

. Same as last gtr

BOHAN-02.L01 November 26, 1996 SECOR Job No. 70074-001-02

in these wells may not have reached equilibrium. Because the hydraulic gradient is relatively flat across the Site, slight discrepancies in depth-to-water measurements can cause an apparent change in the groundwater flow direction. Groundwater measurements collected during the first quarter of 1997 will be used to confirm the groundwater flow direction across the Site.

GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results from samples collected on October 8, 1996, are summarized in Table 2. TPHg was detected in samples collected from the three Site wells (MW-1, MW-2, and MW-3) at 120 micrograms per liter $(\mu g/\ell)$, 8,400 $\mu g/\ell$, and 1,800 $\mu g/\ell$, respectively. Benzene was detected in samples collected from monitor wells MW-2 and MW-3 at 530 $\mu g/\ell$ and 2,700 $\mu g/\ell$, respectively.

Total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as motor oil (TPHmo) were detected above the reporting limits in monitor wells MW-2 and MW-3. However, these results were reported by the laboratory to be lighter hydrocarbons than the indicated standard, indicating that they may be degraded gasoline.

HVOC compounds consisting of cis-1,2-dichloroethene (1.9 $\mu g/\ell$), trichloroethene (3.8 $\mu g/\ell$), and tetrachloroethane (2.2 $\mu g/\ell$) were only detected in the sample collected from monitor well MW-1. The detected HVOCs were all below their respective Maximum Contaminant Level (MCL).

SVOC compounds were not detected in monitor well MW-1. Naphthalene and 2-methylnaphthalene were detected at 190 $\mu g/\ell$ and 26 $\mu g/\ell$, respectively in monitor well MW-2. The groundwater sample from monitor well MW-3 contained phenol at 17 $\mu g/\ell$, naphthalene at 9.7 $\mu g/\ell$, and 2-methylnaphthalene at 110 $\mu g/\ell$. There are no established MCLs for the detected SVOCs at the Site.

Total dissolved solids were analyzed in the sample from monitor well MW-1 with a reported concentration of 940 mg/ ℓ . This value is approaching the upper recommended limit of 1,000 mg/ ℓ for drinking water.

SOIL ANALYTICAL RESULTS

Laboratory reports for 30 samples collected from the aerated soil are included in Attachment 3. TPHg and BTEX constituents were below laboratory detection limits in all of the samples analyzed, indicating that the soil had been successfully remediated.

RESPONSE TO SEPTEMBER 12, 1996, LETTER FROM ALAMEDA COUNTY

The following discussion addresses the comments presented in the above referenced letter from Ms. Juliet Shin of the Alameda County Health Care Services Agency.

- Comment 1: "Due to the elevated contaminant concentrations identified in all three of the newly installed monitoring wells, this office is requesting that quarterly groundwater monitoring resume at the site. Groundwater samples should be analyzed for TPHg, TPH for heavier hydrocarbon chains, BTEX, halogenated volatile organics (Method 8010), and semi-volatile organics (Method 8270). This office is also requesting that a Total Dissolved Solids (TDS) analysis be conducted on one of the groundwater samples collected in the next sampling event to help determine whether the groundwater beneath the site is potable."
- Response 1: Groundwater samples were collected on October 8, 1996, and submitted for the requested analyses. Based on the analytical results, the heavy chain hydrocarbon analyses do not appear necessary. Additionally, because the HVOC detections were below MCLs and no MCLs are established for the SVOC detections, SECOR recommends analyzing future samples for TPHg and BTEX only during the quarterly sampling events.
- Comment 2: "Although the estimated groundwater flow direction is southeasterly, none of the three on-site monitoring wells are located southeast (i.e., downgradient) of any of the former piping, tanks, or sump areas. Therefore, if groundwater continues to flow towards the southeast in the next two quarterly groundwater monitoring events, at least one additional well will need to be installed southeast of the former excavation areas in order to properly address the downgradient extent of the observed contaminant plume."
- Response 2: As discussed above, the groundwater gradient measured on October 8, 1996, was towards the west. This apparent reversal in the gradient direction is likely the result of non-equilibrated conditions during the initial monitoring event (May 1996). Because the groundwater table is relatively flat, minor changes in the groundwater elevation can indicate an erroneous flow direction. The first quarter 1997 groundwater monitoring event should confirm the groundwater flow direction. Based on the October 8, 1996 monitoring data, monitor well MW-3 is located downgradient from the source areas at the Site.

- Comment 3: "This office is concerned that Wells MW-1 and MW-2 may not be screened properly. Based on the well logs, groundwater was initially encountered at roughly 12- to 14-feet below ground surface (bgs) in wells MW-1 and MW-2 and then stabilized at approximately 5.5-feet bgs, which implies that the groundwater aquifer is semi-confined. If this is the case and the top of the water bearing zone lies where groundwater was initially identified, then both MW-1 and MW-2 are only screening one to two feet into the aquifer. Additionally, chlorinated hydrocarbons, which tend to sink in the aquifer due to their density, have been identified in these two wells, therefore, the short screened intervals of these wells may not be accessing the full extent of chlorinated hydrocarbons potentially existing in the aquifer. Unless adequate rationalization for the effectiveness of these screened intervals can be submitted, additional screening or wells may be necessary in these locations."
- During excavation activities conducted at the Site, groundwater was encountered at depths Response 3: of less than 9 feet bgs in both excavations, indicating that groundwater is flowing at depths greater than 12 to 14 feet bgs as indicated on the logs for monitor wells MW-1 and MW-2. Because it can be difficult to identify the saturated zone from soil samples, it is possible that groundwater is flowing in the sediments above the 12- to 14-foot bgs location were groundwater was recorded on the lithologic logs. There is likely a zone of increased groundwater flow at the 12- to 14-foot depth in the vicinity of monitor wells MW-1 and MW-2; however, it is also likely, based on the amount of groundwater that entered the excavations, that groundwater flow is also occurring at shallower depths. Regarding the sinking of chlorinated solvents, it is true that separate-phase chlorinated solvents do tend to sink, however, dissolved-phase chlorinated solvents are less likely to sink because once dissolved, the density differential is greatly reduced. Additionally, the low concentrations of HVOCs detected at the Site are not suggestive of separate-phase product, indicating that the vertical variation of HVOC concentrations may not be significant. Based on the facts that groundwater is likely flowing above the 12- to 14foot bgs level in the vicinity of monitor wells MW-1 and MW-2 and that the concentrations of HVOCs detected do not indicate the presence of separate-phase solvents, the screened intervals for monitor wells MW-1 and MW-2 are adequate to monitor groundwater conditions at the Site.
- Comment 4: "Lastly, this office is requesting that details of the aeration of excavated soils, including confirmatory soil sample results, be submitted to this office in future quarterly reports."
- Response 4: The confirmatory soil sample analytical results are included in Attachment 3.

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

Sincerely,

SECOR International Incorporated

Steven M. McCabe

Project Hydrogeologist/Project Manager

Paul D. Horton, R.G.

Principal Hydrogeologist

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

Figure 1 - Site Location Map

Figure 2 - Sample Location Map

Figure 3 - Potentiometric Surface Map

Table 1 - Groundwater Elevation Data

Table 2 - Detected Constituents in Groundwater

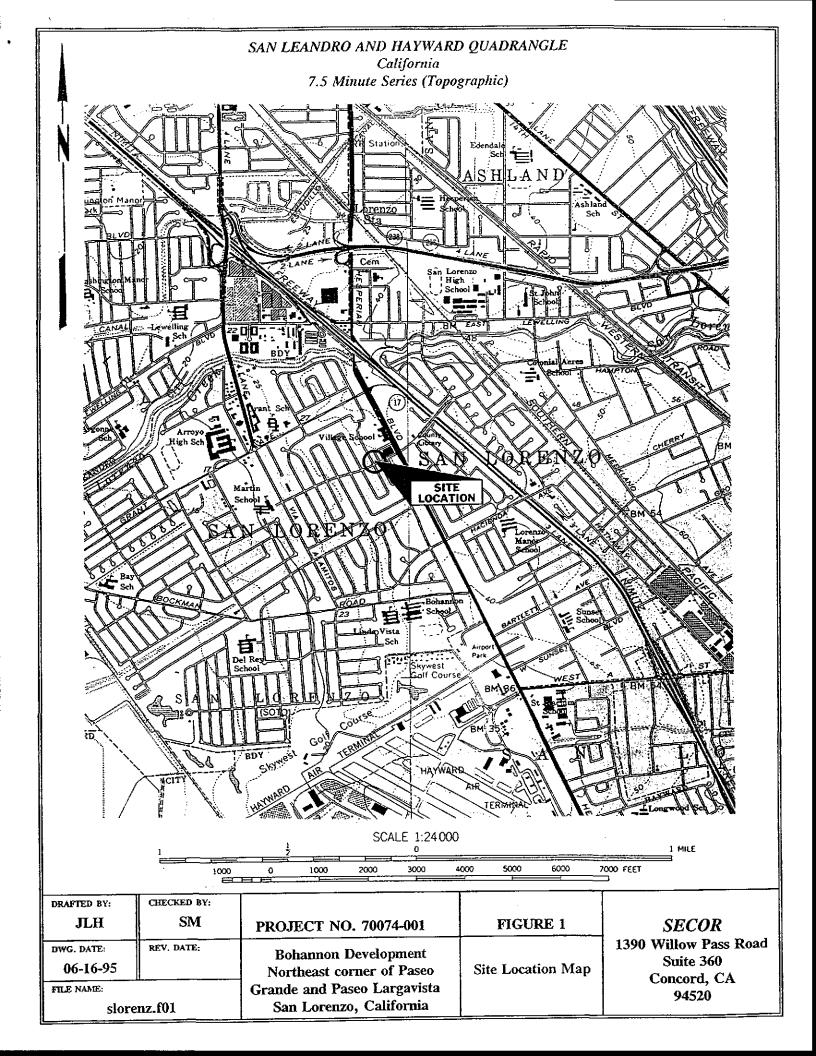
Attachments:

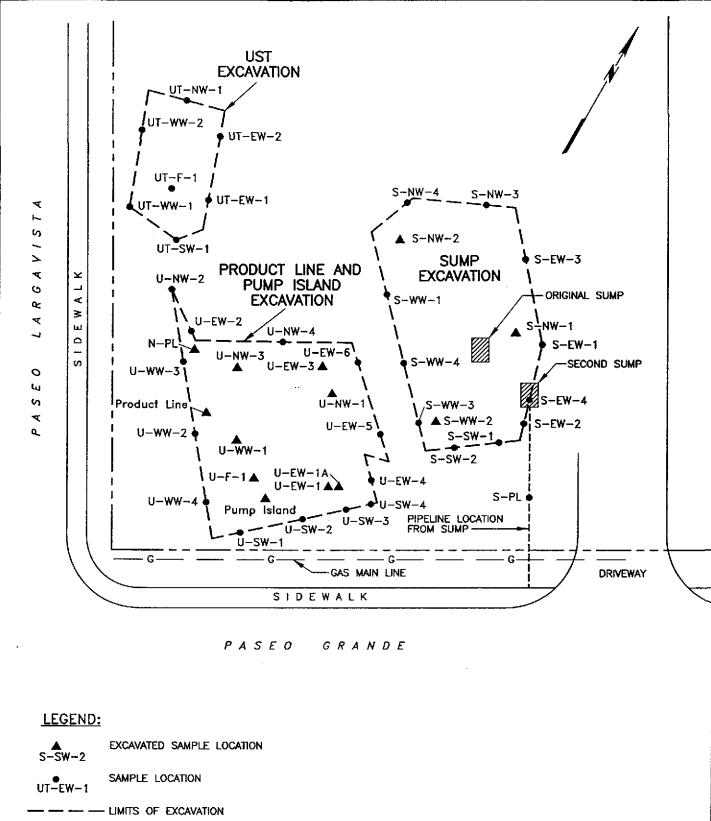
1 - Field Data Sheets

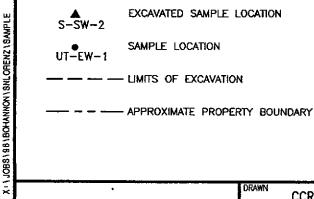
2 - Laboratory Analytical Reports - Groundwater

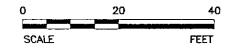
3 - Laboratory Analytical Reports - Soil

4 - Compaction Test Reports









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

SECOR INTERNATIONAL INCORPORATED

199805.231411

DRAWN	CCR
APPR	SM
DATE	23MAY96
JOB NO.	70074-001-02

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

SAMPLE LOCATION MAP

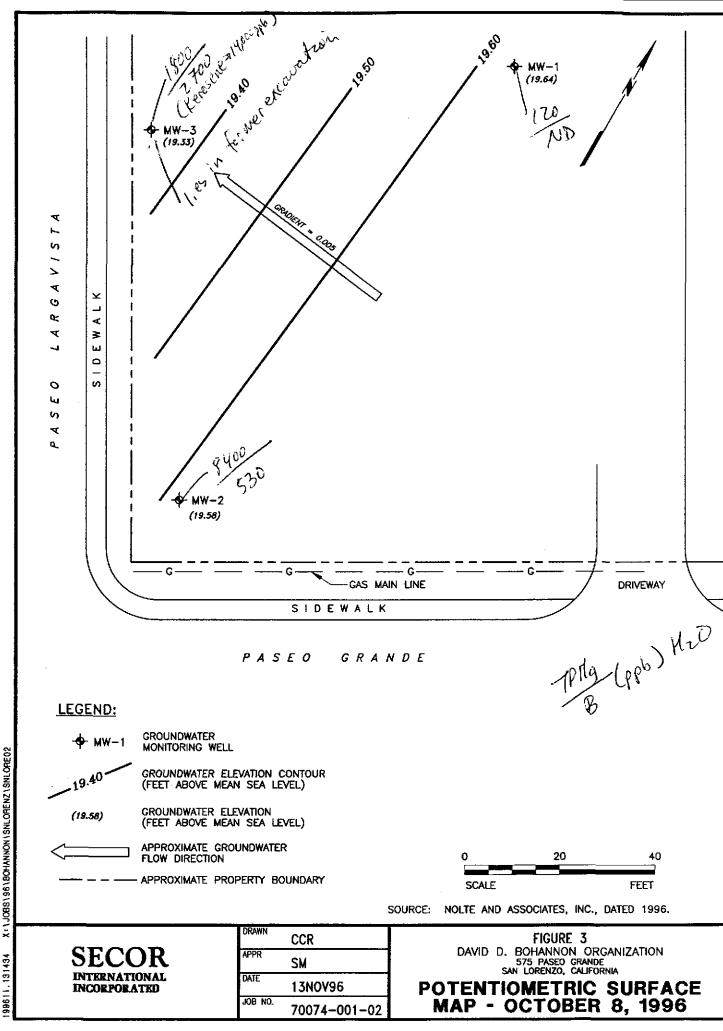


Table 1
Groundwater Elevation Data
575 Paseo Grande
San Lorenzo, California

Well I.D.	Date	TOC	DTW	ELEV.
MW-1	10/8/96	27.11	7.47	19.64
MW-2	10/8/96	26.73	7.15	19.58
MW-3	10/8/96	26.15	6.82	19.33

TOC = Top of well casing relative to Mean Sea Level (MSL)

DTW = Depth to Water

ELEV. = Water table elevation above MSL

Table 2 Detected Constituents in Groundwater (ug/l) **October 8 1996** 575 Paseo Grande San Lorenzo, California

Compound	MW-1	MW-2	MW-3
Benzene	< 0.5	530	2700
Toluene	< 0.5	< 50	240
Ethylbenzene	2.7	400	910
Total xylenes	<0.5	360	970
TPH-as-gasoline	120	8400	1800
Kerosene C10-C16	< 50	6400 L	14000 L
Diesel C12-C22	< 50	840 YL	2800 YL
Motor Oil C22-C50	<300	<300	<900
cis-1,2-Dichloroethene	1.9	< 10	<10
Trichloroethene	3.8	<5	<5
Tetrachloroethene	2.2	<5	<5
Total Dissolved Solids	940,000	NA	NA
Phenol	< 9.4	< 10	17
Naphthalene	< 9.4	190	9.7
2-methylnaphthalene	< 9.4	26	110

Sppb

= Sppb

= PRtus = Z40ppb (Tap water)

ug/l = micrograms per liter (parts per billion)

L = Lighter hydrocarbons than inicated standard

Y = Sample exhibits fuel pattern which does not resemble standard

NA = Not Analyzed

SECOR International Incorporated Hydrologic data sheet

Date: 10/8/	70074-001-02						
Sampler:	12						Page of 1
WELL or			MŒA	SUREMENT			
LOCATION	TIME	TOC	DTW	DTB	DIA	ELEV	COMMENTS
MW-1	1920		7.47	14.82	2 "		9/16", The cooks is too high
MW-2	0934	·	7.15	14.73	5,		10 use de cap
MW-3	0928		6.82	12.69	2*	•	8/16 "
. —							
			·				
· · ·							
	_						
One	clrum	on - Si	ee_		<u> </u>		
				,	ļ -		
			<u></u>				
#17		Post-it* Fa	x Note 76	71 Date 10	8/96 p	of ▶ ∫	
,		To ≤ €	eve	From Co.	Lipir	5	
	. .	Phone #		Phone #	-		
		Fax #		Fax #			3
	-						
		 					
TOC = Top of Well	Casing Elevati	ion					

DTW = Depth to Groundwater Below TOC

DTB = Depth to Bottom of Well Casing Below TOC

DIA = Well Casing Diameter

ELEV = Groundwater Elevation

SEACOR WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 700/4-00/-02 PURGED BY: 27 SAMPLED BY: 47	WELL ID: MW-/ SAMPLE ID: MW-/ CLIENT NAME: Pand D Bohcoson
TYPE: Groundwater X Surface Water	LOCATION: See Larenzo, CA Treatment Effluent Other
CASING DIAMETER (inches): 2 X 3	
CASING ELEVATION: (feet/MSL): DEPTH TO WATER (feet): 7.47 DEPTH OF WELL (feet): 14.82	VOLUME IN CASING (gal) CALCULATED PURGE (gal) ACTUAL PURGE VOL (gal) 4.3 4.3
DATE PURGED: 10/8/96 Start (2400 H DATE SAMPLED: 10/8/96 Start (2400 H	•
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. F	B-1, X-DUP-1):
FIELD MEAS	UREMENTS
TIME VOLUME PH E.C. (2400 Hr.) (pl.) (enloc/cm@Z5*C)	TEMPERATURE COLOR TURBIDITY (*F) (*****) (******) (*******)
0954 1.3 7.86 1592 0957 2.6 7.49 153/ 1000 40 7.44 15.33	81.8 <u>Tan</u> High 20.3 <u>x</u>
D.O. (ppm): COLOR, COBALT (0-100	Ckear Cloudy Yellow
ODOR:	Brown
PURGING EQUIPMENT 2' Eladder Pump Baller (Telloa®) Contributal Pump Baller (PVC) Submerable Pump Baller (Stainless Steel) Well Wizard TM Dedicated Other: Disposable Banler	SAMPLING EQUIPMENT T Bladder Pump Beller (Tellou®) DDL Sampler
WELL INTEGRITY: Good REMARKS:	LOCK #:
SIGNATURE - 199	Page / of /-

SEACOR WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70074-001-02	WELL ID: MW-2 SAMPLE ID: MW-2
PURGED BY: 27 SAMPLED BY: 17	LOCATION: Su Grenze CA
TYPE: Groundwater X Surface Water_	Treatment Effluent Other
CASING DIAMETER (inches): 2 X 3	
CASING ELEVATION: (fcet/MSL): DEPTH TO WATER (feet): 7.15 DEPTH OF WELL (feet): 14.73	VOLUME IN CASING (gal.) CALCULATED PURGE (gal.) ACTUAL PURGE VOL. (gal.) 4/0
50m (2	400 Hr) /// End (2400 Hr.) // 3 J
FIELD QC SAMPLES COLLECTED AT THIS WELL	(ie. FB-1, X-DUP-1):
FIELD N	MEASUREMENTS
TIME VOLUME PH E.C. (2400 Hr) (pl) (units) (units) (units)	TEMPERATURE COLOR TURBIDITY S'C) ('F) (Man) (MEN) visual
1118 1.3 8.08 1869 1123 2.6 7.70 1795 1128 40 7.18 1820	79.1 Gray High
ODOR: Strong themical odor	(0-100): Clear Cloudy Yellow Brown
PURGING BOUIPMENT	SAMPLING EOUTPMENT
Z Bladder Pump Baller (Teflong) Centrifugal Pump Baller (PVC) Submerable Pump Baller (Stainless Steel) Well Wizard Dedicated Other Disposable Railer	2' Bladder Pump BuBer(Teflon®) DDL Sampler BuBer (PVC)deposable) Submendole Pump BuBer (Sublem Steel) Well Witand*** Dodicated
WELL INTEGRITY: Good REMARKS:	LOCK #: 09.9
1	
SIGNATURE:	Page

SEACOR WATER SAMPLE FIELD DATA SHEET

PROJECT NO: $\frac{7\sigma\sqrt{4-\sigma\sigma/-62}}{L_7}$		•	SAMPLE ID-	MW-3 MW-3
SAMPLED BY:	•	C	LIENT NAME:_ LOCATION:_	David D Bohamon
TYPE: Groundwater X Surf	ace Water	_ Trestment Effluent		·
CASING DIAMETER (inches): 2	3	44	6.	Other
CASING ELEVATION: (fcct/MSL): DEPTH TO WATER (fcct): DEPTH OF WELL (fcct):	6. P2 12.69	VOLUME IN CA CALCULATED ACTUAL PURG	PURGE (gal)	1. o 3. o 3. o
DATE PURGED: /0/8/96 DATE SAMPLED: (0/8/96	Start (2400 F	ir)	End (2400 End (2400	Hr.)
FIELD QC SAMPLES COLLECTED AT TO	HIS WELL (i.e. F	B-1, X-DUP-1):		· · · · · · · · · · · · · · · · · · ·
	FIELD MEAS	UREMENTS		
TIME VOLUME PH (units)	(<i>myon</i> (యిడ్డిస్త్వం) EC	TEMPERATURE		TURBIDITY (HEU) visual
1020 1032 1041 3.0 3.6 3.6	1436 1403 1403	76.7 75.5 75.0	Dark Gray	High
D.O. (ppm): COLO	R, COBALT (0-100)):		Clear Cloudy
ODOR: Strong Chemical Odor			_	Yellow Brown
PURGING EQUIPMENT		SAI	MPLING EQUIP	MENT
2" Bladder Pump Bailer (Tello Centrifugal Pump Bailer (PVC Submerrible Pump Bailer (Stain Well Wizard Dedicated	•	2º Biedder Pung DDL Sampler Schwersible Pung Well Witzurd	Bell	er(Tellon®) er (PVC(Séposable) ier (Stainless Steel) liented
Ource Disposable Baler	_	Other		
WELL INTEGRITY: Grood REMARKS:		LOCK #: 09	209	·
Shean on water surface	٤			
SIGNATURE:	\$			of

Chain-of Custody Number:

Ţ
Ĭ
8
Ž
Ë

				SE	EC	OF	(Cha	ain-	of (Cus	tod	ly A	ecc	ord			
Field Office: Con Address: 1390	cord Willo	w Po	255 P	lva ZO	d	Su	ite	36	, o									attached, and are a part of this Record. Bohannon Organization
Project # 700741-0	7-02T	ask#										An	alysi	Rec	ques	1	r	
Project #	Thompso	77 1	be		WTPH-G ed)/8020	I-D ed)	VTPH 418.1	atiles	unics C/MS)	Volatiles	Organics C/MS)	CBs		Itant	10	1 534m	pilos ponjon	Comments/
Sampler's Name Sampler's Signature	ping 2	harg Time	Matrix	무	TPHg/BTEX 8015 (modifi	TPH4/WTPH-D 8015 (modified)	TPH 418.1/MTPH 418.1	Aromatic Vol 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated 601/8010	Semi-volatile 625/8270 (G	Pesticides/P 608/8080	Total Lead	Priority Pollutant Metals (13)	TCLP Metals	Hobreston EPA Metho	Total Dis	Comments/ Instructions
MW-I	10/8	1001	Vater	-	X					Y	X					X		9
MW-2		1135			X					X	X					Х	X	9
MW-3		(045)	V		X					X	X				·	X		9
																		·
										<u> </u>								
·····																		
									,									
Special Instructions/Cor	nments:			Reli	nquis	shed	by:_					Red	eive	d by:				Sample Receipt
•						19	<u>ک</u>	<u> </u>	- 7			_	n					Total no. of containers;
				Prin	l	41	<u> </u>	5		mg	····		1t					l
						у		<u>روري</u> د 0	ate_			1	npan e	-			.te	Rec'd. in good condition/cold: Conforms to record:
						shed						1	ceive					
				1					"' **'				n					Client: SECOR
				_								Prì	nt					Client Contact: Steve Ac Cabe Client Phone: (570) 686-9786
						y						1	траг					(Ha) 101-970
				Tim	e	<u>. </u>		D	ate_			Tir7	ne			Da	ate _	Client Phone: (3/0) 880 - 1/20
ECOR CUSTREC Aev. 1795			_															0 41

Date: 10 18 196 Page 1 of 1

200



TVH-Total Volatile Hydrocarbons

Client: Secor

Project#: 70074-001-02

Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)

Prep Method:

EPA 5030

Batch #	Sampled	Extracted	Analyzed	Moisture
30325	10/08/96	10/12/96	10/12/96	
30325	10/08/96	10/12/96	10/12/96	
30356	10/08/96	10/15/96	10/15/96	
	30325 30325	30325 10/08/96 30325 10/08/96	30325 10/08/96 10/12/96 30325 10/08/96 10/12/96	30325 10/08/96 10/12/96 10/12/96 30325 10/08/96 10/12/96 10/12/96

Matrix: Water

Analyte Diln Fac:	Units	127091-001 1	127091-002 100	127091-003 15	
Gasoline	ug/L	120	8400	1800	
Surrogate					
Trifluorotoluene	%REC	91	91	95	
Bromobenzene	%REC	80	79	92	

BTXE

Client: Secor

Project#: 70074-001-02

Location: Bohannon Development

Analysis Method: EPA 8020

Prep Method:

EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
127091-001	MW-1	30325	10/08/96	10/12/96	10/12/96	
127091-002	MW-2	30325	10/08/96	10/12/96	10/12/96	
127091-003	MW-3	30356	10/08/96	10/15/96	10/15/96	

Matrix: Water

Analyte	Units	127091-001	127091-002	127091-003	
Diln Fac:		1	100	15	
Benzene	ug/L	<0.5	530	2700	
Toluene	ug/L	<0.5	<50	240	
Ethylbenzene	ug/L	2.7	400	910	
m,p-Xylenes	ug/L	<0.5	360	860	
o-Xylene	ug/L	<0.5	<50	110	
Surrogate					
Trifluorotoluene	%REC	98	99	106	
Bromobenzene	%REC	95	95	102	



Lab #: 127091

Client:

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons Analysis Method: CA LUFT (EPA 8015M) Prep Method: EPA 5030

Project#: 70074-001-02 Location: Bohannon Development

METHOD BLANK

Prep Date: 10/12/96 Matrix: Water 10/12/96 Batch#: 30325 Analysis Date:

Units: ug/L Diln Fac: 1

Secor

MB Lab ID: QC32391

Analyte	Result	
Gasoline	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	83	69-120
Bromobenzene	70	70-122



Matrix:

BATCH QC REPORT

Page 1 of 1

BTXE

Client: Secor

Project#: 70074-001-02 Location: Bohannon Development Analysis Method: EPA 8020

Prep Method:

EPA 5030

METHOD BLANK

Water

30325 Batch#:

Units: ug/L Prep Date: Analysis Date:

10/12/96

 $\cdots \in \mathbb{Q}(\widehat{\mathcal{G}}_{i,j}^{-1})^{(i)}$

10/12/96

MB Lab ID: QC32391

Diln Fac: 1

Analyte	Result	
Benzene	<0.5	
Toluene	<0.5	
Ethylbenzene	<0.5	
m,p-Xylenes	<0.5	
o-Xylene	<0.5	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	90	58-130
Bromobenzene	83	62-131

Lab #: 127091

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor

Analysis Method: CA LUFT (EPA 8015M)

Project#: 70074-001-02 Prep Method: EPA 5030 Location: Bohannon Development

METHOD BLANK

Matrix: 10/15/96 Water Prep Date:

Batch#: 30356 Analysis Date: 10/15/96 Units: ug/L

MB Lab ID: QC32517

Diln Fac: 1

Analyte	Result	
Gasoline	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	86	69-120
Bromobenzene	70	70-122



BATCH QC REPORT

BTXE

Secor Client:

Water

30356

Project#: 70074-001-02

Location: Bohannon Development

Analysis Method: EPA 8020

Prep Method: EPA 5030

METHOD BLANK

Prep Date:

10/15/96

Analysis Date: 10/15/96

Units: ug/L Diln Fac: 1

Matrix:

Batch#:

MB Lab ID: QC32517

Analyte	Result	
Benzene	<0.5	
Toluene	<0.5	
Ethylbenzene	<0.5	
m,p-Xylenes	<0.5	
o-Xylene	<0.5	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	96	58~130
Bromobenzene	88	62-131



BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor Analysis Method: CA LUFT (EPA 8015M)

Project#: 70074-001-02 Prep Method: EPA 5030

Location: Bohannon Development

LABORATORY CONTROL SAMPLE

Matrix: Water Prep Date: 10/11/96 Batch#: 30325 Analysis Date: 10/11/96

Units: ug/L Diln Fac: 1

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	2041	2000	102	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	89	69-120		
Bromobenzene	97	70-122		

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



BATCH QC REPORT

Page 1 of 1

BTXE

Analysis Method: EPA 8020 Client: Secor Project#: 70074-001-02

Location: Bohannon Development

EPA 5030 Prep Method:

LABORATORY CONTROL SAMPLE

10/11/96 Water Prep Date: Matrix: 10/11/96 30325 Analysis Date: Batch#:

Units: ug/L Diln Fac: 1

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	16.5	20	83	80-120
Toluene	17.9	20	90	80-120
Ethylbenzene	18	20	90	80-120
m,p-Xylenes	36.4	40	91	80-120
o-Xylene	18	20	90	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	92	58-130		
Bromobenzene	85	62-131		

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor Analysis Method: CA LUFT (EPA 8015M)

Project#: 70074-001-02 Prep Method: EPA 5030

Location: Bohannon Development

LABORATORY CONTROL SAMPLE

 Matrix:
 Water
 Prep Date:
 10/15/96

 Batch#:
 30356
 Analysis Date:
 10/15/96

Units: ug/L Diln Fac: 1

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	2062	2000	103	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene	79	69-120		
Bromobenzene	84	70-122		

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



BATCH QC REPORT

Page 1 of 1

BTXE

Secor Client:

Water

Project#: 70074-001-02

Analysis Method: EPA 8020

Prep Method:

EPA 5030

Location: Bohannon Development

LABORATORY CONTROL SAMPLE

Prep Date:

10/15/96

via 4- 447.

Matrix: Batch#: 30356 ug/L

Analysis Date:

10/15/96

Units: Diln Fac: 1

Result	Spike Added	%Rec #	Limits
18.9	20	95	80-120
20.2	20	101	80-120
19.8	20	99	80-120
41	40	103	80-120
20.3	20	102	80-120
%Rec	Limits		
98	58-130		
91	62-131		
	18.9 20.2 19.8 41 20.3 %Rec	18.9 20 20.2 20 19.8 20 41 40 20.3 20 Rec Limits	18.9 20 95 20.2 20 101 19.8 20 99 41 40 103 20.3 20 102 Rec Limits 98 58-130

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits



Lab #: 127091

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Secor Analysis Method: CA LUFT (EPA 8015M)

Project#: 70074-001-02 Prep Method: EPA 5030

Location: Bohannon Development

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: MW-1 Sample Date: 10/08/96
Lab ID: 127091-001 Received Date: 10/09/96
Matrix: Water Prep Date: 10/12/96
Batch#: 30325 Analysis Date: 10/12/96

Units: ug/L Diln Fac: 1

MS Lab ID: QC32394

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	2000	122.1	2128	106	75- 125
Surrogate	%Rec	Limits			
Trifluorotoluene	96	69-120			
Bromobenzene	91	70-122			

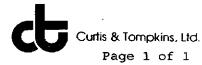
MSD Lab ID: QC32395

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	2000	2200	110	75-125	3	20
Surrogate	%Rec	Limi	lts			
Trifluorotoluene Bromobenzene	98 94	69-1 70-1		-		

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



BATCH QC REPORT

TVH-Total Volatile Hydrocarbons Analysis Method: CA LUFT (EPA 8015M) Client: Secor Prep Method: EPA 5030 Project#: 70074-001-02 Location: Bohannon Development MATRIX SPIKE/MATRIX SPIKE DUPLICATE 10/04/96 Field ID: ZZZZZZ Sample Date: Received Date: 10/04/96 Lab ID: 127058-012 Matrix: Water Prep Date: 10/15/96 10/15/96 Batch#: 30356 Analysis Date: Units: ug/L Diln Fac: 1

MS Lab ID: QC32520

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	2000	1403	3136	87	75-125
Surrogate	%Rec	Limits			-
Trifluorotoluene Bromobenzene	88 90	69-120 70-122		ŧ	

MSD Lab ID: QC32521

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	2000	3142	87	75-125	0	20
Surrogate	%Rec	Limit	5			_
Trifluorotoluene	90	69-12	_			
Bromobenzene	93	70-12	2			******

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



Halogenated Volatile Organics EPA 8010 Analyte List

Client: Secor Analysis Method: EPA 8240 Project#: 70074-001-02 Prep Method: EPA 5030

Location: Bohannon Development

 Field ID: MW-1
 Sampled: 10/08/96

 Lab ID: 127091-001
 Received: 10/09/96

 Matrix: Water
 Extracted: 10/15/96

 Batch#: 30333
 Analyzed: 10/15/96

Units: ug/L Diln Fac: 1

Analyte	Result	Reporting Limit
Chloromethane	ND	2.0
Bromomethane	ND	2.0
Vinyl Chloride	ND	2.0
Chloroethane	ND	2.0
Methylene Chloride	ND	20
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	1.9	1.0
trans-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
Freon 113	ND	1.0
1,2-Dichloroethane	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
Trichloroethene	3.8	1.0
1,1,2-Trichloroethane	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
Dibromochloromethane	ND	1.0
Bromoform	ND	2.0
Tetrachloroethene	2.2	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Chlorobenzene	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	%Recovery	Recovery Limits		
Toluene-d8	109	87-125		
Bromofluorobenzene	84	79-122		
1,2-Dichloroethane-d4	101	68-126		



79-122

68-126

Halogenated Volatile Organics EPA 8010 Analyte List

Client: Secor Analysis Method: EPA 8240 Project#: 70074-001-02 Prep Method: EPA 5030

Location: Bohannon Development

 Field ID: MW-2
 Sampled: 10/08/96

 Lab ID: 127091-002
 Received: 10/09/96

 Matrix: Water
 Extracted: 10/15/96

 Batch#: 30333
 Analyzed: 10/15/96

Units: ug/L Diln Fac: 5

Bromofluorobenzene

1,2-Dichloroethane-d4

Analyte	Result	Reporting Limit		
Chloromethane	ND	10		
Bromomethane	ND	10		
Vinyl Chloride	ND	10		
Chloroethane	ND	10		
Methylene Chloride	ND	100		
Trichlorofluoromethane	· ND	5.0		
1,1-Dichloroethene	ND	5.0		
1,1-Dichloroethane	ND	5.0		
cis-1,2-Dichloroethene	ND	5.0		
trans-1,2-Dichloroethene	ND	5.0		
Chloroform	ND	5.0		
Freon 113	ND	5.0		
1,2-Dichloroethane	ND	5.0		
1,1,1-Trichloroethane	ND	5.0		
Carbon Tetrachloride	ND	5.0		
Bromodichloromethane	ND	5.0		
1,2-Dichloropropane	ND	5.0		
cis-1,3-Dichloropropene	ND	5.0		
Trichloroethene	ND	5.0		
1,1,2-Trichloroethane	ND	5.0		
trans-1,3-Dichloropropene	ND	5.0		
Dibromochloromethane	ND	5.0		
Bromoform	ND	10		
Tetrachloroethene	ND	5.0		
1,1,2,2-Tetrachloroethane	ND	5.0		
Chlorobenzene	ND	5.0		
1,3-Dichlorobenzene	ND	5.0		
1,4-Dichlorobenzene	ND	5.0		
1,2-Dichlorobenzene	ND	5.0		
Surrogate	%Recovery	Recovery Limits		
Toluene-d8	102	87-125		

82

92



87-125

79-122

68-126

Halogenated Volatile Organics EPA 8010 Analyte List

Client: Secor Analysis Method: EPA 8240 Project#: 70074-001-02 Prep Method: EPA 5030

Location: Bohannon Development

 Field ID: MW-3
 Sampled: 10/08/96

 Lab ID: 127091-003
 Received: 10/09/96

 Matrix: Water
 Extracted: 10/15/96

 Batch#: 30357
 Analyzed: 10/15/96

Units: ug/L Diln Fac: 10

Toluene-d8

Bromofluorobenzene

1,2-Dichloroethane-d4

Analyte	Result	Reporting Limit		
Chloromethane	ND	20		
Bromomethane	ND	20		
Vinyl Chloride	ND	20		
Chloroethane	ND	20		
Methylene Chloride	ND	200		
Trichlorofluoromethane	иD	10		
1,1-Dichloroethene	ND	10		
1,1-Dichloroethane	ND	10		
cis-1,2-Dichloroethene	ND	10		
trans-1,2-Dichloroethene	ND	10		
Chloroform	ND	10		
Freon 113	ND	10		
1,2-Dichloroethane	ND	10		
1,1,1-Trichloroethane	ND	10		
Carbon Tetrachloride	ND	10		
Bromodichloromethane	ND	10		
1,2-Dichloropropane	ND	10		
cis-1,3-Dichloropropene	ND	10		
Trichloroethene	ND	10		
1,1,2-Trichloroethane	ND	10		
trans-1,3-Dichloropropene	ND	10		
Dibromochloromethane	ND	10		
Bromoform	ND	20		
Tetrachloroethene	ND	10		
1,1,2,2-Tetrachloroethane	ND	10		
Chlorobenzene	ND	10		
1,3-Dichlorobenzene	ND	10		
1,4-Dichlorobenzene	ND	10		
1,2-Dichlorobenzene	ND	10		
Surrogate	%Recovery	Recovery Limits		

100

85

90



BATCH QC REPORT

Halogenated Volatile Organics EPA 8010 Analyte List

Secor Client:

Project#: 70074-001-02

Matrix:

Location: Bohannon Development

Water

Analysis Method: EPA 8240

Prep Method:

EPA 5030

METHOD BLANK

Prep Date:

10/14/96

Analysis Date:

10/14/96

Batch#: 30333 Units: ug/L Diln Fac: 1

MB Lab ID: QC32433

Analyte	Result	Reporting Limit	
Chloromethane	ND	2.0	
Bromomethane	ND	2.0	
Vinyl Chloride	ND	2.0	
Chloroethane	ND	2.0	
Methylene Chloride	ND	20	
Trichlorofluoromethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
1,1-Dichloroethane	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
Chloroform	ND	1.0	
Freon 113	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Bromodichloromethane	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
Trichloroethene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Dibromochloromethane	ND	1.0	
Bromoform	ND	2.0	
Tetrachloroethene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Chlorobenzene	ND	1.0	
1,3-Dichlorobenzene	ND	1.0	
1,4-Dichlorobenzene	ND	1.0	
1,2-Dichlorobenzene	ND	1.0	
Surrogate	%Rec	Recovery Limits	
Toluene-d8	100	87-125	
Bromofluorobenzene	91	79-122	
1,2-Dichloroethane-d4	91	68-126	



BATCH QC REPORT

Halogenated Volatile Organics EPA 8010 Analyte List

Client: Secor Analysis Method: EPA 8240 Project#: 70074-001-02 Prep Method: EPA 5030

Location: Bohannon Development

Water

METHOD BLANK

Prep Date: 10/15/96 Analysis Date: 10/15/96

Batch#: 30357 Units: ug/L Diln Fac: 1

Matrix:

MB Lab ID: QC32524

Analyte	Result	Reporting Limit	
Chloromethane	ND	2.0	
Bromomethane	ND	2.0	
Vinyl Chloride	ND	2.0	
Chloroethane	ND	2.0	
Methylene Chloride	ND	20	
Trichlorofluoromethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
1,1-Dichloroethane	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
Chloroform	ND	1.0	
Freon 113	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Bromodichloromethane	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
Trichloroethene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Dibromochloromethane	ND	1.0	
Bromoform	ND	2.0	
Tetrachloroethene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Chlorobenzene	ND	1.0	
1,3-Dichlorobenzene	ND	1.0	
1,4-Dichlorobenzene	ND	1.0	
1,2-Dichlorobenzene	ND	1.0	
Surrogate	%Rec	Recovery Limits	
Toluene-d8	99	87-125	
Bromofluorobenzene	87	79-122	
1,2-Dichloroethane-d4	93	68-126	



BATCH QC REPORT

Halogenated Volatile Organics

Analysis Method: EPA 8240 Client: Secor

Prep Method: **EPA** 5030 Project#: 70074-001-02

Location: Bohannon Development

LABORATORY CONTROL SAMPLE

Prep Date: 10/14/96 Matrix: Water Analysis Date: 10/14/96 30333 Batch#:

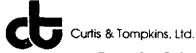
Units: ug/L Diln Fac: 1

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	42.88	50	86	51-180
Trichloroethene	49.24	50	99	73-141
Chlorobenzene	49.95	50	100	83-129
Surrogate	₹Rec	Limits		
Toluene-d8	101	87-125		
Bromofluorobenzene	91	79-122		
1.2-Dichloroethane-d4	91	68-126		

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

Spike Recovery: 0 out of 3 outside limits



BATCH QC REPORT

Page 1 of 1

Halogenated Volatile Organics

Secor Client:

Project#: 70074-001-02

Location: Bohannon Development

Analysis Method: EPA 8240

Prep Method:

EPA 5030

LABORATORY CONTROL SAMPLE

Water

30357 Batch#: Units: ug/L Diln Fac: 1

Matrix:

Prep Date:

10/15/96

Analysis Date: 10/15/96

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	41.63	50	83	51-180
Trichloroethene	49.73	50	100	73-141
Chlorobenzene	49.62	50	99	83-129
Surrogate	%Rec	Limits		
Toluene-d8	101	87-125		
Bromofluorobenzene	89	79-122		
1,2-Dichloroethane-d4	91	68-126		

[#] Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 3 outside limits

Lab #: 127091 BATCH QC REPORT

Halogenated Volatile Organics

Analysis Method: EPA 8240 Client: Secor

Prep Method: EPA 5030 Project#: 70074-001-02

Location: Bohannon Development

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

10/10/96 Field ID: ZZZZZZ Sample Date: 10/11/96 Received Date: Lab ID: 127114-001 10/14/96 Prep Date: Matrix: Water 10/14/96 Analysis Date: Batch#: 30333

Units: ug/L Diln Fac: 1

MS Lab ID: QC32474

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	50	0	44.28	89	51-180
Trichloroethene	50	0.2661	45.35	90	73-141
Chlorobenzene	50	0	46.75	94	83-129
Surrogate	%Rec	Limits			
Toluene-d8	101	87-125		renter	_
Bromofluorobenzene	89	79-122			
1,2-Dichloroethane-d4	92	68-126			

MSD Lab ID: QC32475

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	50	44.46	89	51-180	0	22
Trichloroethene	50	44.86	89	73-141	1	24
Chlorobenzene	50	46.75	94	83-129	0	21
Surrogate	%Rec	Limit	S			
Toluene-d8	102	87-12	5			
Bromofluorobenzene	89	79-12	2			
1,2-Dichloroethane-d4	93	68-12	6			

[#] Column to be used to flag recovery and RPD values with an asterisk

RPD: 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

^{*} Values outside of QC limits

Lab #: 127091

BATCH QC REPORT

Halogenated Volatile Organics

Client: Secor Analysis Method: EPA 8240

Project#: 70074-001-02 Prep Method: EPA 5030

Location: Bohannon Development

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ Sample Date: 10/08/96
Lab ID: 127093-026 Received Date: 10/09/96
Matrix: Water Prep Date: 10/15/96
Batch#: 30357 Analysis Date: 10/15/96

Units: ug/L Diln Fac: 1

MS Lab ID: QC32528

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	50	<1	45.28	91	51-180
Trichloroethene	50	270.7	>LR	NM	73-141
Chlorobenzene	50	<1	46.77	94	83-129
Surrogate	%Rec	Limits			
Toluene-d8	101	87-125			
Bromofluorobenzene	85	79-122			
1,2-Dichloroethane-d4	93	68-126			

MSD Lab ID: QC32529

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	50	42.77	86	51-180	6	22
Trichloroethene	50	>LR	МИ	73-141	NM	24
Chlorobenzene	50	47.04	94	83-129	1	21
Surrogate	%Rec	Limit	s			
Toluene-d8	103	87-12	5			
Bromofluorobenzene	86	79-12	.2			
1,2-Dichloroethane-d4	93	68-126				

[#] Column to be used to flag recovery and RPD values with an asterisk

Spike Recovery: 0 out of 6 outside limits

NM: Not meaningful LR: Over linear range DO: Surrogate diluted out

^{*} Values outside of QC limits RPD: 0 out of 3 outside limits



TEH-Tot Ext Hydrocarbons

Client:

Secor

Project#: 70074-001-02

Location: Bohannon Development

Analysis Method: CA LUFT (EPA 8015M)

Prep Method:

EPA 3520

Batch #	Sampled	Extracted	Analyzed	Moisture
30324	10/08/96	10/11/96	10/14/96	
30324	10/08/96	10/11/96	10/14/96	
30324	10/08/96	10/11/96	10/15/96	
	30324 30324	30324 10/08/96 30324 10/08/96	30324 10/08/96 10/11/96 30324 10/08/96 10/11/96	30324 10/08/96 10/11/96 10/14/96 30324 10/08/96 10/11/96 10/14/96

Matrix: Water

Analyte Diln Fac:	Units	127091-001 1	127091-002 1	127091-003 3	
Kerosene C10-C16 Diesel C12-C22 Motor Oil C22-C50	ug/L ug/L ug/L	<50 <50 <300	6400 L 840 YL <300	14000 L 2800 YL <900	
Surrogate					
Hexacosane	%REC	97	97	92	

Y: Sample exhibits fuel pattern which does not resemble standard

L: Lighter hydrocarbons than indicated standard



Lab #: 127091

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons

Client: Secor

EPA 3520 Project#: 70074-001-02 Prep Method:

Location: Bohannon Development

METHOD BLANK

10/11/96 Prep Date:

Analysis Method: CA LUFT (EPA 8015M)

Water Matrix: Batch#: 30324 Analysis Date: 10/14/96

Units: ug/L Diln Fac: 1

MB Lab ID: QC32388

Analyte	Result	
Kerosene C10-C16	<50	
Diesel C12-C22	<50	
Motor Oil C22-C50	<300	
Surrogate	%Rec	Recovery Limits
Hexacosane	102	60-140

Lab #: 127091

BATCH QC REPORT

Page 1 of 1

TEH-Tot Ext Hydrocarbons

Client: Secor

Analysis Method: CA LUFT (EPA 8015M)

Project#: 70074-001-02

Prep Method:

EPA 3520

Location: Bohannon Development

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water

Prep Date: Analysis Date: 10/11/96 10/13/96

Batch#: 30324 Units: ug/L Diln Fac: 1

BS Lab ID: QC32389

Analyte	Spike Added BS	%Rec #	Limits
Diesel C12-C22	2475 1742	70	60-140
Surrogate	%Rec Limit	ts	
Hexacosane	95 60-14	40	

BSD Lab ID: QC32390

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Diesel C12-C22	2475	1780	72	60-140	2	35
Surrogate	%Rec	Limit	3			
Hexacosane	94	60-140)			

[#] Column to be used to flag recovery and RPD values with an asterisk

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

^{*} Values outside of QC limits

LABORATORY NUMBER: 127091

CLIENT: SECOR

PROJECT #: 70074-001-02

LOCATION: Bohannon Development

DATE SAMPLE Curtis & Tompkins, Ltd. 0/08/96

DATE RECEIVED: 10/09/96 DATE ANALYZED: 10/15/96

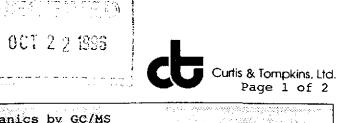
QC Batch: 30359

ANALYSIS: TOTAL DISSOLVED SOLIDS

ANALYSIS METHOD: EPA 160.1

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
127091-001	MW-1	940	mg/L	10
127091-METH	OD BLANK	ND	mg/L	10.0

ND = Not detected at or above reporting limit.



	Semivolat	ile Organics by GC/MS	
Client:	Secor	Analysis Method:	EPA 8270
Project#:	70074-001-02	Prep Method:	EPA 3520
Location:	Bohannon Development		
Field ID:	MW-1	Sampled:	10/08/96
Lab ID:	127091-001	Received:	10/09/96
Matrix:	Water	Extracted:	10/12/96
Batch#:	30328	Analyzed:	10/15/96
Units:	ug/L		
Diln Fac:	1		•
		· · · · · · · · · · · · · · · · · · ·	and the second contract to the second contrac

Analyte	Result	Reporting Limit
Phenol	ND	9.4
2-Chlorophenol	ND	9.4
Benzyl alcohol	ND	9.4
2-Methylphenol	ND	9.4
4-Methylphenol	ир	9.4
2-Nitrophenol	ИД	47
2,4-Dimethylphenol	ND	9.4
Benzoic acid	ИD	47
2,4-Dichlorophenol	ND	9.4
4-Chloro-3-methylphenol	ND	9.4
2,4,6-Trichlorophenol	ND	9.4
2,4,5-Trichlorophenol	ND	47
2,4-Dinitrophenol	ND	47
4-Nitrophenol	ND	47
4,6-Dinitro-2-methylphenol	ND	47
Pentachlorophenol	ND	47
N-Nitrosodimethylamine	ND	9.4
Aniline	ND	9.4
bis(2-Chloroethyl)ether	ND	9.4
1,3-Dichlorobenzene	ND	9.4
1,4-Dichlorobenzene	ND	9.4
1,2-Dichlorobenzene	ND	9.4
bis(2-Chloroisopropyl) ether	ND	9.4
N-Nitroso-di-n-propylamine	ND	9.4
Hexachloroethane	ND	9.4
Nitrobenzene	ИD	9.4
Isophorone	ND	9.4
bis(2-Chloroethoxy)methane	ND	9.4
1,2,4-Trichlorobenzene	ND	9.4
Naphthalene	ND	9.4
4-Chloroaniline	ND	9.4
Hexachlorobutadiene	ND	9.4
2-Methylnaphthalene	ND	9.4
Hexachlorocyclopentadiene	ND	9.4
2-Chloronaphthalene	ND	9.4
2-Nitroaniline	ND	47
Dimethylphthalate	ND	9.4
Acenaphthylene	ND	9.4



Page 2 of 2

	Semivolatile Orga	nics by GC/MS	
Field ID: MW-1		Sampled:	10/08/96
Lab ID: 127091-001		Received:	10/09/96
Matrix: Water		Extracted:	10/12/96
Batch#: 30328		Analyzed:	10/15/96
Units: ug/L			
Diln Fac: 1			
Analyte	Result		Reporting Limit
2,6-Dinitrotoluene	ND		9.4
3-Nitroaniline	ND		47
Acenaphthene	ND		9.4
Dibenzofuran	ND		9.4
2,4-Dinitrotoluene	ND		9.4
Diethylphthalate	ND	•	9.4
4-Chlorophenyl-phenylether	ND		9.4
Fluorene	ND		9.4
4-Nitroaniline	ND		47
N-Nitrosodiphenylamine	ND		9.4
Azobenzene	ND		9.4
4-Bromophenyl-phenylether	ND		9.4
Hexachlorobenzene	ND		9.4
Phenanthrene	ND		9.4
Anthracene	ND		9.4
Di-n-butylphthalate	ND		9.4
Fluoranthene	ND		9.4
Pyrene	ND		9.4
Butylbenzylphthalate	ND		9.4
3,3'-Dichlorobenzidine	ND		47
Benzo(a)anthracene	ND		9.4
Chrysene	ND		9.4
bis(2-Ethylhexyl)phthalate	ND		9.4
Di-n-octylphthalate	ND		9.4
Benzo(b) fluoranthene	ND		9.4
Benzo(k)fluoranthene	ND		9.4
Benzo(a)pyrene	ND		9.4
Indeno(1,2,3-cd)pyrene	ND		9.4
Dibenz(a,h)anthracene	ND		9.4
Benzo(g,h,i)perylene	ND		9.4
Surrogate	%Recovery		Recovery Limits
2-Fluorophenol	86		21-110
Phenol-d5	99		10-110
2,4,6-Tribromophenol	88		10-123
Nitrobenzene-d5	93		35-114
2-Fluorobiphenyl	94		43-116
Terphenyl-d14	44		33-141



		Semivolatile Organics by GC/MS			
	Secor 70074-001-02 Bohannon Development	Analysis Method: Prep Method:	EPA 8270 EPA 3520		
Field ID:	MW-2	Sampled:	10/08/96		
Lab ID:	127091-002	Received:	10/09/96		
Matrix:	Water	Extracted:	10/12/96		
Batch#:	30328	Analyzed:	10/15/96		
Units:	ug/L				
Diln Fac:	1				

Anályte	Result	Reporting Limit
Phenol	ND	10
2-Chlorophenol	ND	10
Benzyl alcohol	ND	10
2-Methylphenol	ND	10
4-Methylphenol	ND	10
2-Nitrophenol	ND	50
2,4-Dimethylphenol	ND	10
Benzoic acid	ND	50
2,4-Dichlorophenol	ND	10
4-Chloro-3-methylphenol	ИD	10
2,4,6-Trichlorophenol	ND	10
2,4,5-Trichlorophenol	ND	50
2,4-Dinitrophenol	ND	50
4-Nitrophenol	ND	50
4,6-Dinitro-2-methylphenol	ND	50
Pentachlorophenol	ИD	50
N-Nitrosodimethylamine	ND	10
Aniline	ND	10
bis(2-Chloroethyl)ether	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ИD	10
1,2-Dichlorobenzene	ND	10
bis(2-Chloroisopropyl) ether	ND	10
N-Nitroso-di-n-propylamine	ND	10
Hexachloroethane	ND	10
Nitrobenzene	ND	10
Isophorone	ND	10
bis(2-Chloroethoxy)methane	NĐ	10
1,2,4-Trichlorobenzene	ND	10
Naphthalene	190	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND .	10
2-Methylnaphthalene	26	10
Hexachlorocyclopentadiene	ND	10
2-Chloronaphthalene	ND	10
2-Nitroaniline	ND	50
Dimethylphthalate	ND	10
Acenaphthylene	ND	10



Page 2 of 2

	Semivolatile Organics by GC/MS	s ei ei ezh
Field ID: MW-2	Sampled:	10/08/96
Lab ID: 127091-002	Received:	10/09/96
Matrix: Water	Extracted:	10/12/96
Batch#: 30328	Analyzed:	10/15/96
Units: ug/L		
Diln Fac: 1		
Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	10
3-Nitroaniline	ND	50
Acenaphthene	ND	10
Dibenzofuran	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
4-Chlorophenyl-phenylether	ND	10
Fluorene	ND	10
4-Nitroaniline	ND	50
N-Nitrosodiphenylamine	ND	10
Azobenzene	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	10
Phenanthrene	ND	10
Anthracene	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	50
Benzo(a)anthracene	ND	10
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	ND	10
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Dibenz(a,h)anthracene	ND	10
Benzo(g,h,i)perylene	ND	10
Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	83	21-110
Phenol-d5	97	10-110
2,4,6-Tribromophenol	88	10-123
Nitrobenzene-d5	101	35-114
2-Fluorobiphenyl	73	43-116
Terphenyl-d14	51	33-141



Semivolatile	Organice	har	CC /MS
Semitantarie	OLUGIILO	L 4	GC TIO

Client: Secor Analysis Method: EPA 8270 Project#: 70074-001-02 Prep Method: EPA 3520

Location: Bohannon Development

Diln Fac: 1

Field ID: MW-3 Sampled: 10/08/96
Lab ID: 127091-003 Received: 10/09/96
Matrix: Water Extracted: 10/12/96

Matrix: Water Extracted: 10/12/96
Batch#: 30328 Analyzed: 10/15/96
Units: ug/L

Analyte	Result	Reporting Limit
Phenol	17	9.4
2-Chlorophenol	ND	9.4
Benzyl alcohol	ND	9.4
2-Methylphenol	ND	9.4
4-Methylphenol	ND	9.4
2-Nitrophenol	ND	47
2,4-Dimethylphenol	ND	9.4
Benzoic acid	ND	47
2,4-Dichlorophenol	ND	9.4
4-Chloro-3-methylphenol	ND	9.4
2,4,6-Trichlorophenol	ND	9.4
2,4,5-Trichlorophenol	ND	47
2,4-Dinitrophenol	ND	47
4-Nitrophenol	ND	47
4,6-Dinitro-2-methylphenol	ND	47
Pentachlorophenol	ND	47
N-Nitrosodimethylamine	ND	9.4
Aniline	ND	9.4
bis(2-Chloroethyl)ether	ND	9.4
1,3-Dichlorobenzene	ND	9.4
1,4-Dichlorobenzene	ND	9.4
1,2-Dichlorobenzene	ND	9.4
bis(2-Chloroisopropyl) ether	ND	9.4
N-Nitroso-di-n-propylamine	ND	9.4
Hexachloroethane	ND	9.4
Nitrobenzene	ND	9.4
Isophorone	ND	9.4
bis(2-Chloroethoxy)methane	ND	9.4
1,2,4-Trichlorobenzene	ND	9.4
Naphthalene	9.7	9.4
4-Chloroaniline	ND	9.4
Hexachlorobutadiene	ND	9.4
2-Methylnaphthalene	110	9.4
Hexachlorocyclopentadiene	ND	9.4
2-Chloronaphthalene	ND	9.4
2-Nitroaniline	ND	47
Dimethylphthalate	ND	9.4
Acenaphthylene	ND	9.4



Page 2 of 2

	Semivolatile Organics by GC,	/MS
Field ID: MW-3	Sampled	: 10/08/96
Lab ID: 127091-003	Received	d: 10/09/96
Matrix: Water	Extracte	ed: 10/12/96
Batch#: 30328	Analyzeo	i: 10/15/96
Units: ug/L		
Diln Fac: 1		
Analyte	Result	Reporting Limit
2,6-Dinitrotoluene	ND	9.4
3-Nitroaniline	ND	47
Acenaphthene	ND	9.4
Dibenzofuran	ND	9.4
2,4-Dinitrotoluene	ND	9.4
Diethylphthalate	ND	9.4
4-Chlorophenyl-phenylether	ND	9.4
Fluorene	ND	9.4
4-Nitroaniline	ND	47
N-Nitrosodiphenylamine	ND	9.4
Azobenzene	ND	9.4
4-Bromophenyl-phenylether	ND	9.4
Hexachlorobenzene	ND	9.4
Phenanthrene	ND	9.4
Anthracene	ND	9.4
Di-n-butylphthalate	ND	9.4
Fluoranthene	ND	9.4
Pyrene	ND	9.4
Butylbenzylphthalate	ND	9.4
3,3'-Dichlorobenzidine	ND	47
Benzo(a)anthracene	ND	9.4
Chrysene	ND	9.4
bis(2-Ethylhexyl)phthalate	ND	9.4
Di-n-octylphthalate	ND	9.4
Benzo(b)fluoranthene	ND	9.4
Benzo(k)fluoranthene	ND	9.4
Benzo(a)pyrene	ир	9.4
Indeno(1,2,3-cd)pyrene	ND	9.4
Dibenz(a,h)anthracene	ND	9.4
Benzo(g,h,i)perylene	ND	9.4
Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	83	21-110
Phenol-d5	83	10-110
2,4,6-Tribromophenol	70	10-123
Nitrobenzene-d5	109	35-114
2-Fluorobiphenyl	34*	43-116
Terphenyl-d14	22*	33-141

^{*} Values outside of QC limits



Holisia Presidenti di Lati

Lab #: 127091

Matrix:

BATCH QC REPORT

Page 1 of 2

EPA 8270 Semi-Volatile Organics

Client: Secor

Project#: 70074-001-02

Analysis Method: EPA 8270

Prep Method:

EPA 3520

Location: Bohannon Development

METHOD BLANK

Prep Date:

10/12/96

Batch#: 30328 Units: ug/L Diln Fac: 1

Water

Analysis Date: 10/14/96

MB Lab ID: QC32406

Analyte	Result	Reporting Limit
Phenol	ND	10
2-Chlorophenol	ND	10
Benzyl alcohol	ND	10
2-Methylphenol	ND ·	10
4-Methylphenol	ND	10
2-Nitrophenol	ND	50
2,4-Dimethylphenol	ND	10
Benzoic acid	ND	50
2,4-Dichlorophenol	ND	10
4-Chloro-3-methylphenol	ND	10
2,4,6-Trichlorophenol	ND	10
2,4,5-Trichlorophenol	ND	50
2,4-Dinitrophenol	ND	50
4-Nitrophenol	ND	50
4,6-Dinitro-2-methylphenol	ND	50
Pentachlorophenol	ND	10
N-Nitrosodimethylamine	ND	10
Aniline	ND	10
bis(2-Chloroethyl)ether	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
bis(2-Chloroisopropyl) ether	ND	10
N-Nitroso-di-n-propylamine	ND	10
Hexachloroethane	ND	10
Nitrobenzene	ND	10
Isophorone	ND	10
bis(2-Chloroethoxy)methane	ND	10
1,2,4-Trichlorobenzene	ND ND	10
Naphthalene	ND	10
4-Chloroaniline	ND ND	10
Hexachlorobutadiene	ND ND	10
	- · · ·	10
2-Methylnaphthalene	ND ND	10
Hexachlorocyclopentadiene	ND	10
2-Chloronaphthalene	ND	50
2-Nitroaniline	ND	10
Dimethylphthalate	ND	10
Acenaphthylene	ND	-
2,6-Dinitrotoluene	ND	10
3-Nitroaniline	ND	50

Lab #: 127091

BATCH QC REPORT

EPA 8270 Semi-Volatile Organics

Client: Secor

Project#: 70074-001-02

Location: Bohannon Development

Analysis Method: EPA 8270

Prep Method:

EPA 3520

METHOD BLANK

Matrix: Water

Batch#: 30328 Units: ug/L Diln Fac: 1

Prep Date:

10/12/96

Analysis Date:

10/14/96

MB Lab ID: QC32406

Analyte	Result	Reporting Limit
Acenaphthene	ND	10
Dibenzofuran	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
4-Chlorophenyl-phenylether	ND	10
Fluorene	ND	10
4-Nitroaniline	ИD	50
N-Nitrosodiphenylamine	ND	10
Azobenzene	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	10
Phenanthrene	ND	10
Anthracene	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	50
Benzo(a)anthracene	ND	10
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	7.8J	10
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Dibenz(a,h)anthracene	ND	10
Benzo(g,h,i)perylene	ND	10
Surrogate	%Rec	Recovery Limits
2-Fluorophenol	91	21-110
Phenol-d5	99	10-110
2,4,6-Tribromophenol	84	10-123
Nitrobenzene-d5	91	35-114
2-Fluorobiphenyl	102	43-116
Terphenyl-d14	93	33-141

BATCH QC REPORT

Lab #: 127091

EPA 8270 Semi-Volatile Organics

Analysis Method: EPA 8270 Prep Method: EPA 3520

Client: Secor Project#: 70074-001-02 Location: Bohannon Development

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water Batch#: 30328 Units: ug/L Diln Fac: 1 Prep Date: Analysis Date:

BS Lab ID: QC32407

Analyte	Spike Added	BS	%Rec #	Limits
Phenol 2-Chlorophenol 4-Chloro-3-methylphenol 4-Nitrophenol Pentachlorophenol 1,4-Dichlorobenzene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene Acenaphthene 2,4-Dinitrotoluene Pyrene	100 100 100 100 100 50 50 50 50	86.62 882.72 597.268 597.268 597.368 40.38 40.38 38.55	8693 8693 6577 8687 777	12-110 27-123 23-97 10-80 9-103 36-97 41-116 39-98 46-118 24-96 26-127
Surrogate	%Rec	Limits		
2-Fluorophenol Phenol-d5 2,4,6-Tribromophenol	91 101 98	21-110 10-110 10-123		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	93 95 94	35-114 43-116 33-141		

BSD Lab ID: QC32408

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Phenol 2-Chlorophenol 4-Chloro-3-methylphenol 4-Nitrophenol Pentachlorophenol 1,4-Dichlorobenzene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene Acenaphthene 2,4-Dinitrotoluene Pyrene	100 100 100 100 100 50 50 50 50	87.15 890.45 86.58 87.26 8	898648779359	12-110 27-123 23-97 10-80 36-97 41-116 39-98 44-918 24-96 26-127	01462060233	42 40 420 550 388 231 338 31
Surrogate	%Rec	Limits	3			
2-Fluorophenol Phenol-d5 2,4,6-Tribromophenol	85 100 100	21-110 10-110 10-123)			
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	93 90 94	35-114 43-116 33-141	5			

[#] Column to be used to flag recovery and RPD values with an asterisk * Values outside of QC limits
RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits
DO: Surrogate diluted out



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878 2 1 1998

2323 Fifth Street, Berkeley, CA 9471O, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Secor 1390 Willow Pass Road Concord, CA 94520

Date: 17-0CT-96

Lab Job Number: 127091 Project ID: 70074-001-02

Location: Bohannon Development

Reviewed by:

Reviewed by:

This package may be reproduced only in its entirety.

Irvine

Chain-of Custody Number: SECOR Chain-of Custody Record Additional documents are attached, and are a part of this Record. Field Office: Concord 1390 Willow Pass Road Suite 360 Job Name: David D. Bohannon Organization Location: San Locenzo CA Concord, CA 94520 **Analysis Request** Project # 70074-00/-02 Task # Project Manager Stave McCake Number of Containers Laboratory Curtis Thompson Halogenated Volatiles 601/8010 Turnaround Time _____Stemdaro Sampler's Name Liping Zhang Total Lead 7421 Sampler's Signature Comments/ Instructions Sample ID 10/8 Vater MW-10017 1135 Received by: Sample Receipt Special Instructions/Comments: Relinquished by: 3 lites amous arrived Clab w/ord labels. This is due to meeted ice. Total no. of containers: Chain of custody seals: Company SECOR Thursday MW-2 has only one liter available Rec'd, in good condition/cold: Date_/0/9/96 Date 10/9/96 Time _2: 0 S for analysis into available for analysis. 7 Mm-3 ends 2 Liters available for analysis. There is no may to distinguish the undahaled Liters. We'll do soon! extractor for Conforms to record: Relinquished by: Received by: _____ Client: SECOR Sign _____ Sign _____ Client Contact: Steve Mc Cabe Print _____ Print Company _____ Company _____ Client Phone: (510) 686-9750 TEH & BLAD for mW-2 ? convel TDS Time _____ Date ____ Time _____ Date ____

Jan 10/1/26

Date: 10 18 196 Page / of /



Superior

Analytical Laboratory

SECOR

1390 WILLOW PASS RD, STE. 360

CONCORD, CA 94520

Attn: STEVE McCABE

Laboratory Number: 21789

SEP - 5 1996

Date: September 4, 1996

Project Number/Name : 70074-001-02 T

Facility/Site : BOHONNON

SAN LEANDRO, CA

Dear STEVE McCABE:

Attached is Superior Analytical Laboratory report for the samples received on August 2, 1929. This report has been reviewed and approved for release. 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 September 1, 1929, 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,

Afsaneh Salimpour Project Manager



Analytical Laboratory

CASE NARRATIVE

SECOR

Project Number/Name: 70074-001-02 TASK#003 Laboratory Number: 21789

Sample Receipt

Thirty soil samples were received by Superior Analytical Laboratory on August 2, 1929.

Cooler temperature was 0.3°C

No abnormalities were noted with sample recieving.

Sample Analysis

The samples were analysed for methods 8015M and 8020.



Superior

Analytical Laboratory

SECOR

Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

Chronology		Laboratory Number 21789				
Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
S-1	08/22/96	08/02/29	08/27/96	08/27/96	CH271.37	01
S-2		08/02/29			CH271.37	
S-3		08/02/29			CH271.37	
S-4		08/02/29			CH271.37	=
S-5		08/02/29			CH271.37	
S-6		08/02/29			CH271.37	
S-7		08/02/29			CH291.37	
S-8		08/02/29			CH271.37	
S-9		08/02/29			CH271.37	
S-10		08/02/29			CH271.37	
S-11		08/02/29			CH291.37	
S-12		08/02/29			CH291.37	12
S-13		08/02/29			CH291.37	13
S-14		08/02/29			CH291.37	14
S-15		08/02/29			CH291.37	15
S-16		08/02/29			CH291.37	16
S-17		08/02/29			CH291.37	17
S-18		08/02/29			CI031.37	18
S-19		08/02/29			CH291.37	19
S-20		08/02/29			CH291.37	20
S-21		08/02/29	•		CH291.37	21
S-22		08/02/29			CH291.37	22
S-23		08/02/29			CI031.37	23
S-24		08/02/29		•	CI031.37	24
S-25		08/02/29			CI031.37	25
S-26		08/02/29			CI031.37	26
S-27		08/02/29		• •	CI031.37	20 27
S-28		08/02/29			CI031.37	28
S-29		08/02/29			CI031.37	26 29
S-30		08/02/29			CI031.37	30
QC Samples						
QC Batch # QC Sampl	e ID	тур	peRef.	Matrix	Extract. A	\nalyzed
CH271.37-02 Laborato	pry Spike	LS	•	Soil	08/27/96	08/27/96



Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

QC Batch #	QC Sample ID	Туре	eRef.	Matrix	Extract.	Analyzed
CH271.37-06	S-1	MS	21789-01	Soil	08/27/96	08/27/96
CH271.37-07	S-1	MSD	21789-01	Soil	08/27/96	08/27/96
CH291.37-02	Laboratory Spike	LS		Soil	08/29/96	08/29/96
CH291.37-05	S-11	MS	21789-11	Soil	08/29/96	08/29/96
CH291.37-06	S-11	MSD	21789-11	Soil	08/29/96	08/29/96
CI031.37-02	Laboratory Spike	LS		Soil	09/03/96	09/03/96
CI031.37-10	S-23	MS	21789-23	Soil	09/03/96	09/03/96
CI031.37-12	S-23	MSD	21789-23	Soil	09/03/96	09/03/96
CH271.37-01	Method Blank	MB		Soil	08/27/96	08/27/96
CH291.37-40	Method Blank	MB		Soil	08/29/96	08/29/96
CI031.37-01	Method Blank	MB		Soil	09/03/96	09/03/96
CH271.37-03	Laboratory Spike	LS		Soil	08/27/96	08/27/96
CH271.37-08	S-1	MS	21789-01	Soil	08/27/96	08/27/96
CH271.37-09	S-1	MSD	21789-01	Soil	08/27/96	08/27/96
CH291.37-03	Laboratory Spike	LS		Soil	08/29/96	08/29/96
CH291.37-07	S-11	MS	21789-11	Soil	08/29/96	08/29/96
CH291.37-08	S-11	MSD	21789-11	Soil	08/29/96	08/29/96
CI031.37-03	Laboratory Spike	LS		Soil	09/03/96	09/03/96
CI031.37-13	S-23	MS	21789-23	Soil	09/03/96	09/03/96
CI031.37-14	S-23	MSD	21789-23	Soil	09/03/96	09/03/96



Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

LAB ID	Sample ID					Matrix	Dil.Fa	ctor	Moisture
21789-01	S-1					Soil		.0	-
21789-02	S-2					Soil	1	.0	-
21789-03	S-3					Soil	1	0	-
21789-04	S-4					Soil	1	. 0	
		RESU	LTS	O F A	NALY	SIS			
Compound		21789-	01	21789-	02	21789-	03	21789	-04
		Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	
Gasoline_Range		ND	1	ND	1	ND	1	ND	1
Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes		ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Rec	coveries (%)	<<							
Trifluorotoluer	· ·	91		80		85		81	



Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

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.Fa	actor	Moisture
21789-05	S-5					Soil		L . 0	
21789-06	S-6					Soil		L.0	_
21789-07	S-7					Soil		1.0	_
21789-08	S-8					Soil		L. O	-
		R E S U	L T S	O F A	NALY	SIS			
Compound		21789-	05	21789-	06	21789-	07	21789	-08
		Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range		ND	1	ND	1	ND	1	ND	1
Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes		ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Rec	coveries (%) <	<<							
Trifluorotoluen	ne (SS)	88		81		91		91	

Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

LAB ID	Sample ID					${\tt Matrix}$	Dil.Fa	actor	Moisture
21789-09	S-9					Soil		0	
21789-10	S-10					Soil		0	_
21789-11	S-11					Soil		0	-
21789-12	S-12					Soil		.,0	-
		RESU	LTS	O F A	NALY	SIS			
Compound		21789-	09	21789-	10	21789-	11	21789	-12
		Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range	······································	ND	1	ND	1	ND	1	ND	1
Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes		ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Re	coveries (%)								
Trifluorotolue		85		81		88		85	



Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

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.Fa	ctor	Moisture
21789-13	S-13					Soil		L. 0	
21789-14	S-14					Soil		0	_
21789-15	S-15					Soil		0	_
21789-16	S-16					Soil		0	-
		RESU	LTS	O F A	NALY	SIS			
Compound		21789-	13	21789-	14	21789-	15	21789	-16
		Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range		ND	1	ND	1	ND	1	ND	1
Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes		ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Rec	overies (%)	<<							
Trifluorotoluen		88		94		87		86	



Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

LAB ID	Sample ID					Matrix	Dil.Fa	ctor	Moisture
21789-17	S-17			·		Soil		0	-
21789-18	S-18					Soil	1	.0	_
21789-19	S-19					Soil		0	_
21789-20	S-20					Soil	1	. 0	-
		RESU	LTS	OF A	NALY	SIS			
Compound		21789-	17	21789-	18	21789-	19	21789	-20
		Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	
Gasoline_Range		ND	1	ND	1	ND	1	ND	1
Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes		ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Rec	overies (%) <	: <							
Trifluorotoluen		88		100		84		87	

Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

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.Fa	ctor	Moisture
21789-21	S-21					Soil		0	
21789-22	S-22					Soil	1	. 0	-
21789-23	S-23					Soil		0	_
21789-24	S-24					Soil	1	.0	-
		RESU	LTS	O F A	NALY	SIS			
Compound		21789-21		21789-	21789-22 21		.789-23 2178		-24
		Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	
Gasoline_Range		ND	1	ND	1	ND	1	ND	1
Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes		ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Re	coveries (%)	<<							
Trifluorotolue		93		87		85		90	



Attn: STEVE McCABE

Project 70074-001-02 TASK#003 Reported on September 4, 1996

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.Fa	ctor	Moisture
21789-25	S-25					Soil	1	. 0	-
21789-26	S-26					Soil	1	0	_
21789-27	S-27				-	Soil	1	0	_
21789-28	S-28					Soil	1	0	-
		RESU	LTS	O F A	NALY	SIS			
Compound		21789-	25	21789-	26	21789-	27	21789	-28
		Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	
Gasoline_Range		ND	1	ND	1	ND	1	ND	1
Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene		ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes		ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Rec	overies (%)	<<							
Trifluorotoluen		86		89		84		85	

LAB ID

Attn: STEVE McCABE

Trifluorotoluene (SS)

Sample ID

Project 70074-001-02 TASK#003 Reported on September 4, 1996

Moisture

Dil.Factor

Matrix

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

	_							···OIDCUIC
21789-29	S-29	·		····	Soil	1.	. 0	
21789-30	S-30				Soil	1.	. 0	-
		REST	JLTS	OF A	NALYSIS			
Compound		21789	9-29	21789-	-30			
		Conc. mg/kg		Conc. mg/kg	RL			
Gasoline_Range	· <u> </u>	ND	1	ND	1			
Benzene		ND	0.005	ND	0.005			
Toluene		ND	0.005	ND	0.005			
Ethyl Benzene		ND	0.005	ND	0.005			
Xylenes		ND	0.005	ND	0.005			

Quality Assurance and Control Data

Laboratory Number: 21789 Method Blank(s)

	CH271. Conc. mg/kg	37-01 RL	CH291 Conc. mg/kg		CI031. Conc. mg/kg		
Gasoline_Range	ND	1	ND	1	ND	1	
Benzene	ND	0.005	ND	0.005	ND	0.005	
Toluene	ND	0.005	ND	0.005	ND	0.005	
Ethyl Benzene	ND	0.005	ND	0.005	ND	0.005	
Xylenes	ND	0.005	ND	0.005	ND	0.005	
>> Surrogate Recoveries (%)	<<						
Trifluorotoluene (SS)	105		93		102		



Quality Assurance and Control Data

Laboratory Number: 21789

Compound		mple nc.	SPK Level	SPK Result	Recovery %	Limits %	RPD
	CH271.37	For 02 /	Soil Matrix - Laborat	(mg/kg) ory Control Sp	oikes		-
Benzene			0.100	0.12	120	65~125	
Toluene			0.100	0.097	97	65-125	
Ethyl Benzene			0.100	0.10	100	65-125	
Xylenes			0.300	0.29	97	65~125	
<pre>>>> Surrogate Recoveries Trifluorotoluene (SS)</pre>	(%) <<				107	50-150	
		_					
	CH291.37		Soil Matrix	(mg/kg) ory Control Sp	ikac		
	CH291.37	02 /	- Daborat	ory control of	ines		
Benzene			0.100	0.077	77	65-125	
Toluene			0.100	0.079	79	65-125	
Ethyl Benzene			0.100	0.081	81	65-125	
Xylenes			0.300	0.25	83	65-125	
>> Surrogate Recoveries	(왕) <<						
Trifluorotoluene (SS)					82	50-150	
		For	Soil Matrix	(ma/ka)			
	CI031.37			cory Control Sp	oikes		
Benzene			0.100	0.082	82	65-125	
Toluene			0.100	0.088	88	65-125	
Ethyl Benzene			0.100	0.088	88	65-125	
Xylenes			0.300	0.27	90	65-125	
>> Surrogate Recoveries	(%) <<						
Trifluorotoluene (SS)	•				99	50-150	
•		E	Page 12 of 19	5			



Quality Assurance and Control Data

Laboratory Number: 21789

Compound .	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
		r Soil Matrix / - Labora	(mg/kg) tory Control Spi	kes		
Gasoline_Range		10	10	100	65-135	
		r Soil Matrix / - Labora	(mg/kg) tory Control Spi	kes		
Gasoline_Range		10	10	100	65-135	
		r Soil Matrix / - Labora	(mg/kg) tory Control Spi	ikes		
Gasoline_Range		10	9	90	65-135	
	Fo CH271.37 06	r Soil Matrix / 07 - Sample	(mg/kg) Spiked: 21789	- 01		
Benzene Toluene	ND ND	0.100 0.100	0.081/0.077 0.084/0.079	81/77 84/79	65-125 65-125	5 6
Ethyl Benzene Xylenes	ND ND	0.100 0.300	0.080/0.074 0.24/0.23	80/7 4 80/77	65-125 65-125	8 4
>> Surrogate Recoveries (Trifluorotoluene (SS)	%) <<			89/87	50-150	
		r Soil Matrix / 06 - Sample	k (mg/kg) e Spiked: 21789	- 11		
Benzene	ND	0.100 Page 13 of 3	0.081/0.079 L5	81/79	65-125	3



Quality Assurance and Control Data

Laboratory Number: 21789

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
Toluene	ND	0.100	0.082/0.080	82/80	65-125	2
Ethyl Benzene	ND	0.100	0.082/0.079	82/79	65-125	4
Xylenes	ND	0.300	0.25/0.24	83/80	65-125	4
>> Surrogate Recoveries	(%) <<					
Trifluorotoluene (SS)				88/91	50-150	
		Soil Matrix 12 - Sample	(mg/kg) Spiked: 21789	- 23		
_						
Benzene	ND	0.100	0.073/0.077	73/77	65-125	5
Toluene	ND	0.100	0.076/0.084	76/84	65-125	10
Ethyl Benzene	ND	0.100	0.072/0.080	72/80	65-125	11
Xylenes	ND	0.300	0.22/0.25	73/83	65-125	13
<pre>>> Surrogate Recoveries Trifluorotoluene (SS)</pre>	(%) <<			85/88	50-150	
·		Soil Matrix 09 - Sample	(mg/kg) Spiked: 21789 -	- 01		
Gasoline_Range	ND	10	7/8	70/80	65-135	1
		Soil Matrix 08 - Sample	(mg/kg) Spiked: 21789 -	- 11		
Gasoline_Range	ND	10	7/8	70/80	65-135	1
		Soil Matrix 14 - Sample	(mg/kg) Spiked: 21789	- 23		
Gasoline_Range	ND I	10 Page 14 of 15	7/7	70/70	65-135	4



Narrative:

Definitions:

ND = Not Detected
RL = Reporting Limit
NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)
ng/L = parts per million (ppm)

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

																	Cha	ain-c	of Cust	ody Nur	nber:	
	21789	7	16	3	SE	C	OF		Cha	ain-c	of C	ust	ody	Re	cor	d						
Field Office:	CONLOND	ţ											Add	itiona	al do	cume	ents a	re at	tached,	and are	a part of this Reco	ord.
		o.) Das	NO.									Job	Nan	ne: 🗀	BOH	Ann	رين		· · · · · · · · · · · · · · · · · ·			
Address:	1390 WILL	1000	3 1-10-2.	<u>-</u>															<u>.a., </u>			
	-01000001	_ L C_1,											.a									
Project # 121	0074-001-0	02 T	20k# C	203									An	alysis	s Red	ques	t	-				
Project Man	ager Sasaks	MEASE	ask# <u></u> }	<u></u>																		
Laboratory_	ager <u>Spave</u> Supsnion				1	00		18.1			υ	S										ers
Turnaround	Time5/29-√4	DANO				PH-		Ä.	S	S AS	latile	gani (S)										Containers
					-	[ed)	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/NIS)	ŞCB.		Priority Pollutant Metals (13)	2						ပို
Sampler's N	lame 12 . Na	NEWA	<u>۸ ل</u>			E E	F S	8.1/	잃었	호 ⁴ 한 2	nate 10	olatil 70 ((tes/f	ad	Poll (13)	Metals						Ser G
Sampler's S	ignature		,,,,,		₽	15 15	돌	14 14	mat 2/80	atile 1/82	1/80 1/80	mi-√ 5/82	sticic 3/80	Total Lead 7421	ority tals	TCLP N				Comm	nents/	Number
Samı	ole ID	Date	Time	Matrix	HCID	₽ 8 B	F 8	4	Arc 600	8 ≷	£ 8	Se.	Pe:	Tot 742	Pri Me	77				Instru		
5-1		3/22/90		Soin		X														له فلاتهم والعدد العلموف	1	
5-2		u	-	u.		X								Marian Maria	Carlo de de la constante de la	,	معينه يدرر					1
5-3		и	-	ч	1	X					,											1
5-4		4		и		X					-											7
5-5	•	4	_	и		X					-								:sl	<u>remme D</u>		1
5-6		11				X	<u> </u>			<u> </u>	-					e	bac	ppə	Thoda	w s'AOV		17
<u> </u>				<u> </u>	 	<u>/</u>				<u> </u>							1				.	1
5-8		 4		4	 	X	-		<u> </u>	 	1					7	- 51	១៤រុប	uos sil	soldmb		1,
5-8		н			 -	Ŷ				-				.0	-		1	لا <u>ادد</u>	: 1151	ini eebe.	d į	+;
5-10		4		 k		 √				 			205	- 0				#		Participant of the Control of the Co		1
	ructions/Comm	l <i>h</i>		<u> </u>	Reli	naui	shed	hv:	Ser	الده	 		Rel	inaui	shed	.bv:	1		4	_	Sample Receipt	
opoolal mot	143113113133	· · · · · · · · · · · · · · · · · · ·			Sign	۱. <u></u>	/t/\	<u>X</u>		لده			Sig	n	1	lli	14	ہ) حو	lav	T	otal no. of containers:	:
					Prin	t			بجري				Prir	nt			~ .			_	ain of custody seals:	:
					Con	npan	<u>ب</u> ے۔	30	لدده	ate 🙎	1	/_	Cor	npan	y	لمس	<u>, , (</u>	<u> </u>	12219	Rec'd. in	good condition/cold:	
											, ,	196							1244	\$	Conforms to record:	
					1	•		-					1			-				Client:	Strow	
																				-		
										,										- Client C	Contact: 575VE A	1CADE
										ate_			Tin	ne	,		Da	ate_		_ _ Client F	Contact: <i>STEVE A</i> Phone: <i>(SLO) & & &</i>	-978
SECOR CUSTREC Re	nv 9/04																				<u> </u>	

Date: <u>8 / 22 /96</u> Page <u>/</u> of <u>3</u>

Chain-of Custody Number: 21789 1/3 SECOR Chain-of Custody Record Additional documents are attached, and are a part of this Record. Field Office: CONCOND Address: 1390 WIND fass Nd. Job Name: Bottanon CONCONO, CA~ Location: SAU GANDO, CA. **Analysis Request** Project # 70074-001-02 Task # 003
Project Manager TINE MICASE TPH 418.1/WTPH 418.1 Laboratory Softman Halogenated Volatiles 601/8010 Turnaround Time Spandano Volatile Organics 624/8240 (GC/MS) Aromatic Volatiles 602/8020 Semi-volatile Orgar 625/8270 (GC/MS) Sampler's Name 1. Martin ō Sampler's Signature ____ Comments/ Sample ID Matrix Time Instructions SOLU 0.300 La borda in ice. 5-12 ч posidia containers _ 5-13 u 4 reserved 5-14 u u hav heddspace ___ 5-15 4 5-16 u 5-19 5-19 5-20 Relinquished by: Stack Relinquished by: Zelfoly Special Instructions/Comments: Sample Receipt Total no. of containers: Print 1. Navero Print _____ Chain of custody seals: Company Scow
Time 1355 Date 8/22/94 Company SAC Time 1337 Date 8/21/96 Rec'd. in good condition/cold: Conforms to record: Relinquished by: _____ Relinquished by: _____ Client: Sour Sign _____ Sign _____ Client Contact: Stole Mccase
Client Phone: (Sto)686 4780 Print ______ Print _____ Company _____ Company _____ Time _____ Date ____ Time _____ Date SECOR CUSTREC Rev. 9/94

Date: 1 122190 Page 2 of 3

Slandaro	J Densily:		REL	ATIVE COM	PACTION T	EST DATA	ach		No. DY ecl. RSI	- SNI)	
General	Cocalion		ة المستخدم المراد المر	Nuclear	Density Met	hod	1748		COCT	25-1	996
Tesi No.	Location	Depth Below Final Grade	Densily Count	Wel Density (p.c.f.)	Moisture Count	Moisture Content (p.c.l.)	Moisture Content (percent)	Maximum Dry Density (p.c.f.)	Ory Oensily (p.c.l.)	Relative Compaction (percent)	Requir Compac (percer
Α	VACANT LOT	· 0		127.0	· · · · · · · · · · · · · · · · · · ·	15 9	14.3	1205	111-1	93	90
B	11 11	0		118.2	···	10.4	9.7		107.8	90	<u> </u>
0		6		-122 . 7		13.5	12.4		109.2	91	
-										_	
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
											-
				·			-				
					,						
								<u></u>			
The work	described above DOES / DOES NOT conform to the	Compacti	on Specific s	alion.			· ,		Milea	B//-	4
Travel Tir	ne: 10 Start Thine 3:30	End Time at Site	412	O Al Si	Hours te/	1.0	OT Hours		Total	Hours	2.0
Technicia	N JULIUS GO	(BSK)		verma se Fleto	l Represent	ative	JEFF	DEAK	11	(CI	ient)
Remarks	PERFORMED NUCL	EAR	FIE	LD I	DENS/1	Y 7	Es7	ON	EXIS	7106	
	SOIL OF VACANT					•					
· · ·						. ,		·	<u> </u>		
				·		. ,				,.	