

eandro Chrysler - Peyase

282 East 14th St. • San Leandro, CA 94577 510-562-4871 * Fax 552-5070

1 November 1995

Mr. Thomas Reacock Alameda County Health Care Services Agency Department of Environmental Health 1/31 Harbor Bay Parkway Alameda, CA 94502

SUGJECT: Fourth Quarterly Monitoring Report

Cox Cadillac, 230 Bay Place, Oakland, California

Dear Mr. Peacock:

Enclosed is one copy of the "Fourth Quarterly Monitoring Report" for the Cox Cadillac, 230 Pay Place, Oakland, California site. The report was completed according to Task III of the approved Work Plan for Futher Investigation, 230 Bay Place, Oakland, California (Work Plan), dated March 1994. As recommended in your June 7, 1994 Work Plan approval letter, well TW-2 was used as a upgradient well for the purpose of estimating groundwater flow direction only, and well TW-6 was sampled for groundwater analyses. EOA, Inc. will continue measuring groundwater elevations monthly.

I will contact you in approximately two weeks to set up a meeting to discuss the results of the quarterly monitoring and the hydropunch investigation. Please call me if you have any questions regarding the report.

Sincerely,

William L. Cox

President

WLC/ceg

CC: Andy Briefer, PES

Rory Campbell Robert Cross

File

ENC: 1

EOA, Inc.

Eisenberg, Olivieri, & Associates Environmental and Public Health Engineering

November 7, 1995

Mr. Bill Cox 232 E. 14th St. San Leandro, CA 94577

SUBJECT: Fourth Quarterly Monitoring Report

Dear Mr. Cox:

This letter report summarizes the results of monitoring of wells during the period July through September 1995 (fourth quarter of monitoring) at the property located at 230 Bay Place, Oakland, California. Monitoring activities during this quarter include measuring depth to groundwater monthly and sampling groundwater for analyses in September. The report was completed according to Task III of the approved Work Plan for Further Investigation, 230 Bay Place, Oakland, California (Work Plan), dated March 1994. The Work Plan was approved by the Alameda County Department of Environmental Health, Environmental Protection Division (County) with two exceptions. The County suggested using well TW-2 as an upgradient well, if needed, and the County suggested sampling well TW-6 for groundwater analyses.

Two main tasks were completed for this report; 1) on a monthly basis, wells MW-1, TW-2, TW-6, and TW-7 were checked for free product, then depth to groundwater was measured in them and 2) on September 29, wells MW-1, TW-6, and TW-7 were purged and sampled for groundwater analyses. As subcontractors to EOA, Inc., Subsurface Consultants, Inc. (SCI) performed the field tasks and Curtis and Tompkins Laboratory, a California-Certified Laboratory, performed the groundwater analyses.

Methodology

The August groundwater surface contour map (SCI, September 6, 1995) is included in this report in Attachment 1. The September groundwater surface contour map and the field methods used to perform the tasks listed above are included in Attachment 2, "Quarterly Groundwater Monitoring" Report (SCI, October 13, 1995). The depth to groundwater was measured and contoured for August and September (see Figures 1 and 2). Due to an oversight on the subcontractor's part (because of the hydropunch work at the site), the depths to groundwater were not measured during July. For the groundwater surface contour maps, the data points were referenced to an arbitrary datum of 100' for the top of casing (TOC) in MW-1. The wells have not been surveyed to date and this methodology is consistent with that used by PES in a prior report.

In September, wells MW-1, TW-6, and TW-7 were purged and samples were collected for the following analyses: 1) Total Volatile Hydrocarbons (as gasoline) and Benzene, Toluene, Ethylbenzene, and total Xylenes (TVH/BTEX) (by California DOHS Method and LUFT

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Mr. Bill Cox November 7, 1995 Page 2

Manual methodology, and by EPA 5030/8020), 2) 1,1-, and 1,2-dichloroethane (DCA) (by EPA Method 8010) and 3) soluble lead (by EPA 6010A). Locations of the sampled wells with groundwater analyses results are indicated on Figure 3.

Results

Table 1A summarizes the quarterly groundwater elevation data for December 1994, March 1995, June 1995, and September 1995. Table 1B summarizes the monthly groundwaer elevation data for the August and September 1995 monitoring events. Based on data collected during this quarter, the general direction of groundwater flow is in a southwesterly to westerly direction; the former is toward Lake Merritt and is similar to previous observations at this site. Over the past three quarterly monitoring events, the groundwater elevation is decreasing.

The August groundwater flow direction is anomolous to previous groundwater level measurements, due to the measurement from well MW-1. Based on historical quarterly depth-to-groundwater measurements that range from 2.21 feet to 3.00 feet, the measurement of 6.45 feet is inconsistent with prior measurements. If the depth to groundwater for August were in the historical range, the groundwater gradient map would show a gradient similar to historic maps for the site; i.e. groundwater flow in a southwesterly direction.

According to the technician who measured the depths-to-groundwater in August, nothing unusual was observed during the field measurements and he is confident that the reported measurement is correct (telephone conversation on November 6, 1995). At present, we have no explanation for this apparently anomalous measurement, however, it should be noted that the recorded total depth of well MW-1 is 20 feet, whereas the total depths in wells TW-2, TW-6, and TW-7, are 7.63, 7.60, and 7.68 feet, respectively (PES, December 23, 1993).

No free product was observed in any of the wells that were monitored. The results of the groundwater analyses are summarized in Table 2, "Summary of Groundwater Analyses". A copy of the original laboratory analytical report is in Attachment 3. Historical groundwater analyses are summarized in Table 3. The concentrations in groundwater of TVH, benzene, toluene, ethyl benzene, and total xylenes have generally decreased in value over time; however, for the June and September monitoring events, the concentrations increased slightly. The concentrations of all chemicals in MW-1 decreased slightly from the concentrations detected during the June monitoring event. The concentrations of all chemicals in wells TW-6 and TW-7 either increased or decreased slightly; all except TVH concentrations in well TW-7 remained within the same order of magnitude as the concentrations detected during the June monitoring event.

Mr. Bill Cox November 7, 1995 Page 3

Interpretation

This quarterly sampling report is intended as a data report only. A more complete interpretation is planned for inclusion in the annual report, when the full year of monitoring data is available. However, at the County's request, some limited and preliminary interpretation can be provided regarding the limited data collected to date.

Regarding groundwater flow, the data appears to confirm that the gradient across the property is consistently towards the southwest. There is some indication from the three most recent quarter's measurements that the flow may shift to a more southerly direction near the Bay St. property boundary (near well TW-7). With the available data, it cannot be determined whether this is actually a change of flow direction, or some localized effect, or even a problem with the construction of wells TW-6 or TW-7).

Regarding analytical results, the highest concentrations of TVH and BTX were found in well TW-7, which is located adjacent to, and downgradient from, the former underground storage tank location. The highest concentration of ethyl benzene, the only detection of 1,2-DCA and soluble lead were detected in well MW-1. Lower concentrations of soluble lead were also detected in wells TW-6 and TW-7. MW-1 is located next to the former waste oil tank location. The presence of TVH and BTEX is consistent with the confirmed release of unleaded gas from the underground fuel tank which was removed last year. Both dissolved lead and chlorinated solvents are more commonly associated with releases from waste oil tanks than with unleaded gasoline. The detection of soluble lead and 1,2-DCA, and their presence primarily in MW-1, tend to indicate that their source was more likely the former waste oil tank than the former fuel tank. Their extent in groundwater is probably relatively limited, but soluble lead was detected over a larger area in this quarter's and last quarter's sampling than in previous quarters. The relatively low concentrations of soluble lead in wells TW-6 and TW-7 are consistent with a source near well MW-1.

In general, concentrations of TVH and BTEX have increased slightly since the last quarterly monitoring event; this apparent increase in concentrations may be due to the accompanying fluctuation in groundwater levels.

Please call me or Sherris Ragsdale if you have any questions concerning this report.

Sincerely,

Don Gesenl

Don Eisenberg, PhD., P.E.

President

Attachments

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Mr. Bill Cox November 7, 1995 Page 4

Limitations

The services performed by EOA, Inc. for this report have been performed using that degree of care and skill ordinarily exercised by reputable professionals practicing under similar circumstances in this or similar localities. No other warranty, expressed or implied, is made by providing these consulting services. This report has been prepared by EOA, Inc. for Mr. Cox for submittal to Alameda County Health Department and other regulatory agencies. This report has not been prepared for use by other parties, and may not contain sufficient information for the purposes of other parties or uses.

It should be recognized that subsurface conditions may vary from those encountered at the location where samples are collected. The data, interpretation and recommendations of EOA, Inc. are based solely on the information available to EOA, Inc. during the project. EOA, Inc. will be responsible for those data, interpretations and recommendations, but shall not be responsible for the interpretation by others of the information developed.

Because of the limitations inherent in sampling, and the variability of natural materials, determining the absence of any chemical except in the immediate vicinity of a sample can rarely be done with complete certainty. The only way to determine that a site is absolutely free of chemicals of concern is to sample and analyze all the soil and groundwater at the site, which is impractical and costly. Balancing the level of confidence required against the budgetary constraints is difficult. The sampling and analysis in this investigation were approved by the Alameda County Health Department and are consistent with State regulations and guidelines.

Table 2 Summary of Groundwater Analyses Cox Cadillac September 29, 1995

Well	TVH as gasoline	benzene	toluene	ethyl benzene	total xylenes	1,1 DCA	1,2 DCA	soluble lead
MW-1	43	5.6	2.2	3.8	7.4	ND at .001	.98	.016
TW-6	47	19	5.2	1.5	4.0	ND at .001	ND at .001	.0033
TW-7	74	32	8.7	2.9	8.6	ND at .001	ND at .001	.0035

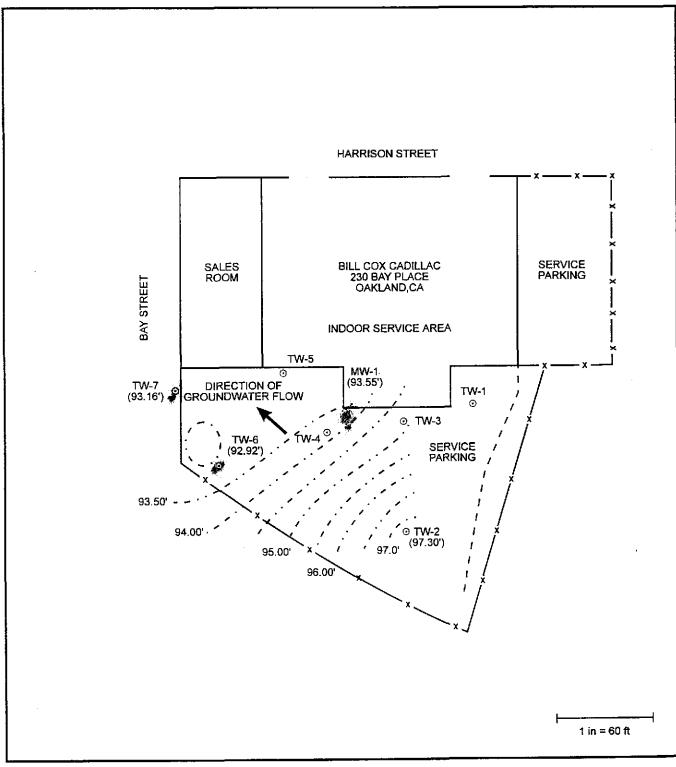
All values in milligrams per liter (ppm).

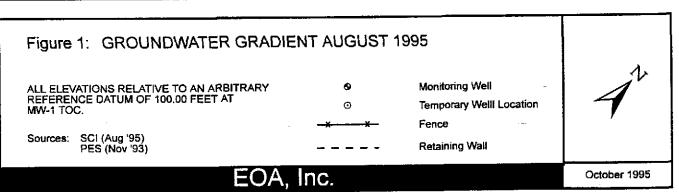
Table 3
Summary of Historical Groundwater Analytical Results
Cox Cadillac

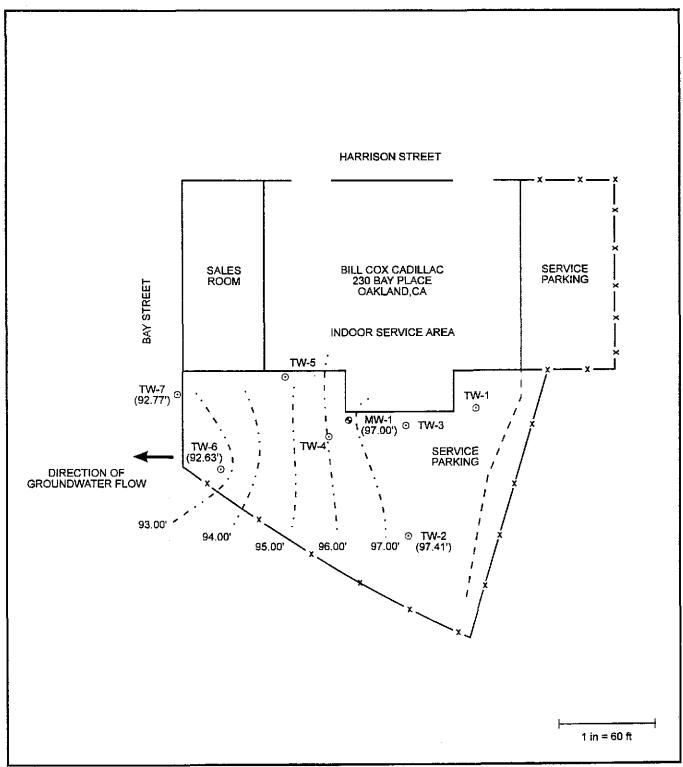
Weil	Date	TVH as gasoline	benzene	toluene	ethyl benzene	total xylenes	1,1-DCA	1,2-DCA	ethylene dibromide	soluble lead
MW-1	3/3/93 10/13/93 12/22/94 3/24/95 6/29/95 9/29/95	110 74 110 25 28 43	8.5 6.1 18 3.7 5.3 5.6	7.5 4.8 11 1.8 2.1 2.2	4.4 4 2 2.2 3.2 3.8	15 11 16 4.7 7.5 7.4	NA NA <.001 <.005 <.002 <.001	0.35 0.35 0.13 0.13 0.110 0.980	NA 0.08 NA NA NA NA	NA NA NA .023 .014 .016
TW-1	10/13/93	<0.05	<.0005	<.0005	<.0005	<.0005	NA	<.0005	<.0005	NA
TW-2	10/13/93	<.05	<.0005	<.0005	<.0005	<.0005	NA	<.0005	<.0005	NA
TW-3	10/13/93	<.05	<.0005	<.0005	<.0005	<.0005	NA	<.0005	<.0005	NA
TW-4	10/13/93	2	.065	.018	.049	.033	NA	<.005	<.005	NA
TW-5	10/13/93	140	20	25	3.8	23	NA	<.01	<.01	NA
TW-6	10/14/93 12/22/94 3/24/95 6/29/95 9/29/95	4.1 24 10 28 47	3.8 5 4.9 12 19	1.6 2 0.53 6.6 5.2	0.11 3 0.27 1	0.54 6 0.38 3 4	NA <.001 <.002 <.001 <.001	<.001 <.001 <.002 <.001 <.001	<.001 NA NA NA NA	NA NA <.003 .0042 .0033
TW-7	10/14/93 12/22/94 3/24/95 6/29/95 9/29/95	100 210 56 100 74	48 49 13 39 32	15 33 7 8.1 8.7	3.4 7 1.5 3 2.9	16 28 5.6 8.3 8.6	NA <.001 <.002 <.001	<.05 <.001 <.002 <.001 <.001	<.05 NA NA NA NA	NA NA <.003 .0035 .0035

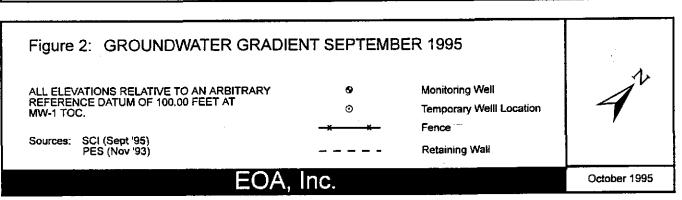
All values in milligrams per liter (ppm). NA - Not Analyzed

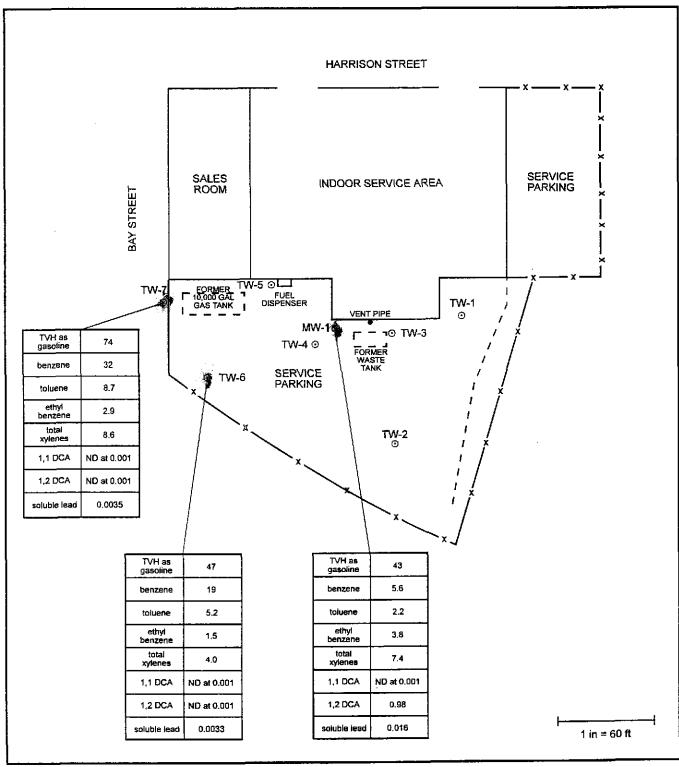
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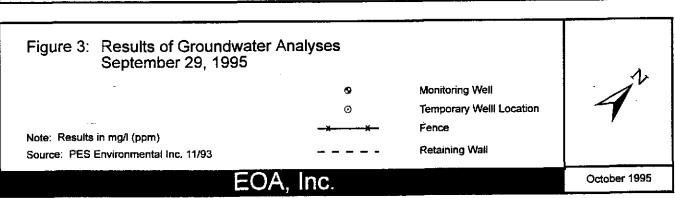












LIST OF ATTACHMENTS

Attachment 1.	SCI, Inc. Data from August 1995 Water Level Measurement Event
Attachment 2.	SCI, Inc. Quarterly Groundwater Monitoring Report, September 1995
	Fuent (October 12, 1995)

Event (October 13, 1995)

Attachment 3. Curtis and Tompkins Laboratory Analytical Report

R. William Rudolph, Jr., PE Thomas E. Cundey, PE Jeriann N. Alexander, PE



EOA

1410 Jackson Street

Ms. Sherris Ragsdale

Oakland, California 94612

DATE:

September 6, 1995

PROJECT:

230 Bay Place, Oakland

SCI JOB NUMBER: 805.007

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of our final report a draft of our report a Service Agreement a proposed scope of services specifications grading/foundation plans soil samples/groundwater samples an executed contract	if you have any questions, please call for your review and comment please return an executed copy for geotechnical services with our comments with Chain of Custody documents X for your use X Data from August Water Level Measurement Event
REMARKS:	

COPIES TO:

BY: Me Mender fo JNA

Jeriann N. Alexander

Subsurface Consultants, Inc.
171 12th Street - Suite 201 - Oakland, California 94607 - 510-268-0461 - Fax 510-268-0137

Subsurface Consultants, Inc.

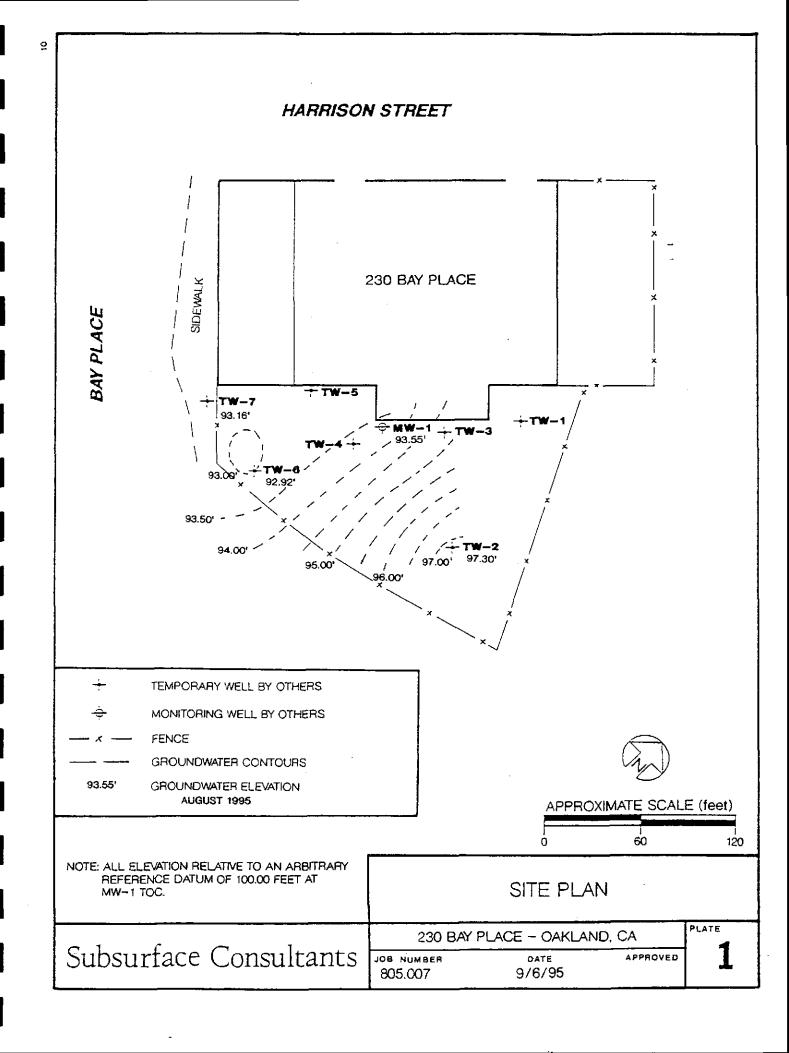
171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 510-268-0461 • FAX 510-268-0137

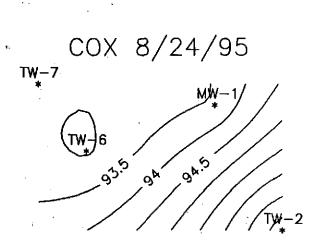
Table 1. Groundwater Elevation Data

Well Number	<u>Date</u>	TOC Elevation* (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
Men Mannet	Date	(1001)	1,7221	
TW-1	10/13/93	100.91	0.06	100.85
TW-2	10/13/93	100.43	2.32	98.11
	12/22/94		2.88	97.55
	1/24/95		1.95	98.48
	2/22/95		1.87	98.56
	3/24/95		1.87	98.56
	4/25/95		2.86	97.57
	5/26/95		1.90	98.53
	6/29/95		2.10	98.33
	8/24/95		3.13	97.30
TW-3	10/13/93	100.46	4.43	96.03
TW-4	10/13/93	99.35	2.73	96.62
TW-5	10/13/93	99.40	4.84	94.56
TW-6	10/13/93	98.75	5.40	93.35
	12/22/94		4.66	94.09
	1/24/95		4.10	94.65
	2/22/95		4.14	94.61
	3/24/95		3.81	94.94
	4/25/95		6.03	92.72
	5/26/95		5.07	93.68
	6/29/95		5.25	93.50
	8/24/95		5.83	92.92
TW-7	10/14/93	97.96	5.40	92.56
	12/22/94		4.50	93.46
	1/24/95		3.10	94.86
	2/22/95		4.15	93.81
	3/24/95		2.98	94.98
•	4/25/95		5.23	92.73
	5/26/95		3.93	94.03
	6/29/95		4.30	93.66
	8/24/95		4.80	93.16
MW-1	10/13/93	100.00	3.55	96.45
	12/22/94		2.96	97.04
	1/24/95		3.62	96.38 97.35
	2/22/95		2.65	97.35 97.79
	3/24/95		2.21 3.69	96.31
	4/25/95	•	3.09 2.32	97.68
	5/26/95		2.32 2.44	97.56
-	6/29/95		2.44 6.45	93.55
	8/24/95		0.43	93.33

Depths are measured below Top of Casing (TOC)

* Elevations are referenced to the TOC for MW-1, which was assumed by others to have an elevation 100.00 feet





Subsurface Consultants

FIELD REPORT

	FIELD REPORT	Sheetof
PROJECT: OOK Cod	јов NO:	
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Prepared by:	Reviewed by:	
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October 13, 1995 SCI 805.007

Ms. Sherris Ragsdale Eisenberg, Olivieri, and Associates 1410 Jackson Street Oakland, California 94612

Quarterly Groundwater Monitoring September 1995 Event Cox Cadillac Facility 230 Bay Street Oakland, California

Dear Ms. Ragsdale:

This letter presents the results of the September 1995 groundwater monitoring event for the referenced site. Subsurface Consultants, Inc. (SCI) performed the event at the request of Eisenberg, Olivieri, and Associates (EOA). In general, SCI's services included:

- Checking wells TW-2, TW-6, TW-7 and MW-1 for free floating product,
- Measuring groundwater depths in wells TW-2, TW-6, TW-7 and MW-1, and
- 3. Purging and sampling wells TW-6, TW-7 and MW-1.

Groundwater Sampling

On September 29, 1995, wells TW-2, TW-6, TW-7 and MW-1 were monitored. Initially, the wells were checked for free product and the depth to groundwater using a steel tape and water and petroleum sensitive pastes. No free product was observed. Groundwater level data is summarized in Table 1. Groundwater surface contours are shown on the Site Plan, Plate 1.

Subsurface Consultants, Inc.

Ms. Sherris Ragsdale Eisenberg, Olivieri, and Associates October 13, 1995 SCI 805.007 Page 2

Prior to sampling, the wells were each purged of at least three well volumes of water by using a new disposable bailer. Well MW-1 was sampled with a new disposable bailer after it had recovered to 80 percent of its initial level. Due to slow recovery rates, wells TW-6 and TW-7 were sampled following purging. Purge water was placed in 55-gallon drums which were labeled and left on-site for later disposal by others.

Samples were retained in glass containers pre-cleaned by the supplier in accordance with EPA protocol. The containers were placed in an ice filled cooler and remained iced until delivered to EOA. Well sampling forms are attached.

On-going Services

Groundwater levels in wells TW-2, TW-6, TW-7 and MW-1 will be measured on a monthly basis and wells TW-6, TW-7 and MW-1 will be sampled on a quarterly basis through January 1996. As a result, the next monthly event will be performed during the week of October 23, 1995 and the next quarterly event will be performed during the week of December 25, 1995.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

Jeriann N. Alexander

Civil Engineer 40469 (expires 3/31/99)

JNA:RWR:clh

Attachments: Table 1. Groundwater Elevation Data

meg mendra for JNA

Plate 1. Site Plan Well Sampling Forms

2 copies submitted

Table 1. Groundwater Elevation Data

Well Number	<u>Date</u>	TOC Elevation* (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
TW-1	10/13/93	100.91	0.06	100.85
TW-2	10/13/93 12/22/94 1/24/95 2/22/95 3/24/95 4/25/95 5/26/95 6/29/95 8/24/95 9/29/95	100.43	2.32 2.88 1.95 1.87 1.87 2.86 1.90 2.10 3.13 3.02	98.11 97.55 98.48 98.56 98.56 97.57 98.53 98.33 97.30 97.41
TW-3	10/13/93	100.46	4.43	96.03
TW-4	10/13/93	99.35	2.73	96.62
TW-5	10/13/93	99.40	4.84	94.56
TW-6	10/13/93 12/22/94 1/24/95 2/22/95 3/24/95 4/25/95 5/26/95 6/29/95 8/24/95 9/29/95	98.75	5.40 4.66 4.10 4.14 3.81 6.03 5.07 5.25 5.83 6.12	93.35 94.09 94.65 94.61 94.94 92.72 93.68 93.50 92.92 92.63
TW-7	10/14/93 12/22/94 1/24/95 2/22/95 3/24/95 4/25/95 5/26/95 6/29/95 8/24/95 9/29/95	97.96	5.40 4.50 3.10 4.15 2.98 5.23 3.93 4.30 4.80 5.19	92.56 93.46 94.86 93.81 94.98 92.73 94.03 93.66 93.16 92.77

Well Number	<u>Date</u>	TOC Elevation* (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1	10/13/93	100.00	3.55	96.45
	12/22/94		2.96	97.04
	1/24/95		3.62	96.38
	2/22/95		2.65	97.35
	3/24/95		2.21	97.79
	4/25/95	•	3.69	96.31
	5/26/95		2.32	97.68
	6/29/95		2.44	97.56
	8/24/95		6.45	93.55
	9/29/95		3.00	97.00

Depths are measured below Top of Casing (TOC)
* Elevations are referenced to the TOC for MW-1, which was assumed by others to have an elevation 100.00 feet

SITE PLAN

SITE PLAN

SITE PLAN

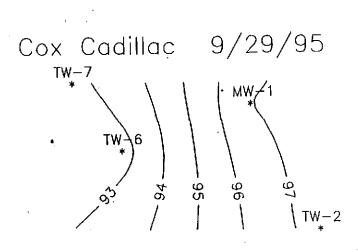
SUBSURFACE Consultants

SITE PLAN

230 BAY PLACE - OAKLAND, CA

JOS NUMBER DATE APPROVED
805.007 10/4/95

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Subsurface Consultants

FIELD REPORT

Sheet___of__

PROJECT: Cox Pudillac JOB NO: 805.007 REPORT NO.
PERSONNEL PRESENT: Sherris Racsdale EDA DATE: 9/29/95
HOURS - From: To: ToTAL HRS: 30
EQUIPMENT IN USE:
TYPE OF SERVICES PROVIDED:
Site Meeting Construction Observation
Met uf Bhonis Facedale (EDA)
gound water depths measured,
Atter groundwater levels stabilized
- Purged Mw-1 & waited for ground
water to recover to 80% Then
simpled. Hursed two until day
Then sampled as bailer refilled.
- two-7 purged until Newly dry then
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GROUNDWATER DEPTHS

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	Well	Date	Time	Groundwater Depth (feet)		Comments	
. [mw-1	9/29/95		3.0			
	TW-Z	9/29/95	<u> </u>	3.02			
	TW-6	9/24/95		6.12			
	TW-7.	9/29/95		5.19			
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WELL SAMPLING FORM

Sampled By: NOW Date: 4194 AK TOC Elevation: Weather: Weather: Usuak Depth to Casing Bottom (below TOC) 3.00 fee Depth to Groundwater (below TOC) 7.00 fee Feet of Water in Well 7.00 fee Depth to Groundwater When 80% Recovered 5.90 fee Casing Volume (feet of water x Casing DIA 2 x 0.0408) 7.70 gallons Depth Measurement Method Tape 2 Paste / Electronic Sounder Other Free Product 7.75 80.2 / STA 1900	Project Name: Lox Cadillac	_ Well Number: Mw -	
Sampled By: TOC Elevation: Weather: Cluck TOC Elevation: Weather: Cluck Depth to Casing Bottom (below TOC) 3.00 fee Feet of Water in Well 17.00 fee Feet of Water in Well 5.90 fee Casing Volume (feet of water x Casing DIA 2 x 0.0408) 3.77 gallons Depth Measurement Method Tape 8 Paste / Electronic Sounder Other Free Product 14.10 buller: FIELD MEASUREMENTS Gallons Removed pH Temp (°c) (micromhos/cm) Salinity S% Comments 2 7.75 80.2 / SF0 G 7.15 71.9 / 9/10 Total Gallons Purged gallon Depth to Groundwater Before Sampling (below TOC) 5.90 fee Sampling Method 40 fee The Standard S	Job No.: 805.007	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	2 inch
Depth to Casing Bottom (below TOC) Depth to Groundwater (below TOC) Depth to Groundwater (below TOC) Teet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.0408) Depth Measurement Method Tape & Paste FIELD MEASUREMENTS Gallons Removed DH Temp (°c) Free Product Free Product Purge Method DH Temp (°c) Te	Sampled By: 1800	Date:	
Depth to Groundwater (below TOC) Feet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.0408) Depth Measurement Method Tape & Paste Free Product Purge Method FIELD MEASUREMENTS Gaillons Removed PH Temp (°c) The Signature of the	TOC Elevation:	_ Weather: _ Clux	<u> </u>
Depth to Groundwater (below TOC) Feet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.0408) Depth Measurement Method Tape & Paste Free Product Purge Method FIELD MEASUREMENTS Gallons Removed PH Temp (°c) (micromhos/cm) Salinity S% Comments Total Gallons Purged Depth to Groundwater Before Sampling (below TOC) Sampling Method Getomatic Scounder Free Product Free Product FIELD MEASUREMENTS Conductivity (micromhos/cm) Salinity S% Comments FIELD MEASUREMENTS FIELD MEASUREMENTS Gallons Purged FIELD MEASUREMENTS FIELD MEASUREMENTS FIELD MEASUREMENTS FIELD MEASUREMENTS Conductivity (micromhos/cm) Salinity S% Comments FIELD MEASUREMENTS FIELD MEASUREMENT			
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Peet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.0408) Depth Measurement Method Tape & Paste Free Product Purge Method Temp (°c) Conductivity (micromhos/cm) Salinity S% Comments Conductivity (micromhos/cm) Salinity S% Comments 7.75 Depth 1900 Total Gallons Purged Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used Sec. 2 1.540 Jiter 2000 Jiter 2000		3 <i>-00</i>	
Casing Volume (feet of water x Casing DIA 2 x 0.0408) Depth Measurement Method Tape & Paste Free Product Purge Method FIELD MEASUREMENTS Gaillons Removed PH Temp (°c) (micromhos/cm) Salinity S% Comments 7.75 SO. Z 1540 1900 Canded Table And	Feet of Water in Well		
Depth Measurement Method Tape & Paste Electronic Sounder Other	Depth to Groundwater When 80% Recovered	5.40	feet
Depth Measurement Method Tape & Paste Free Product Purge Method FIELD MEASUREMENTS Gallons Removed DH Temp (°c) (micromhos/cm) Salinity S% Comments 2 1.75 50. Z / 540 LI 7.49 746 / 900 LO 7.16 71.9 / 900 Total Gallons Purged Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used Glean Tape & Paste Flectronic Sounder Conductivity (micromhos/cm) Salinity S% Comments Comments Salinity S% Comments Free Product Free Produc	Casing Volume (feet of water x Casing DIA 2 x 0.0408)	2.77	gallons
FIELD MEASUREMENTS Gallons Removed pH Temp (°c) (micromhos/cm) Salinity S% Comments Z 1.75 SO.Z 1570 LI 749 748 1900 Y 7.16 71.9 1910 Total Gallons Purged Before Sampling (below TOC) Sampling Method Helon banky Containers Used I iter XXM pint			Other
FIELD MEASUREMENTS Gallons Removed pH Temp (°c) (micromhos/cm) Salinity S% Comments Z 7.75 SO. Z 1540 LJ 7.49 74-6 1900 G 7.33 72-9 1860 Total Gallons Purged Before Sampling (below TOC) 5.90 Sampling Method Holon Pailur Containers Used Groundwater Before Sampling (below TOC) 5.90 Titer y Micromator pint			
FIELD MEASUREMENTS Gallons Removed pH Temp (°c) (micromhos/cm) Salinity S% Comments Z 1.75 SO. Z 1540 La 7.49 746 1900 Ca 7.33 72.9 1860 Total Gallons Purged Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used Gallons Purged File D MEASUREMENTS Conductivity (micromhos/cm) Salinity S% Comments 1540 1900 Gallons Purged File D MEASUREMENTS Conductivity (micromhos/cm) Salinity S% Comments File D MEASUREMENTS Conductivity File D MEASUREMENTS File D MEASUREM	Purge Method Litton buil	er:	
Gallons Removed pH Temp (°c) (micromhos/cm) Salinity S% Comments 2 7.75 SO. Z /540 4 749 74-8 1900 1 1900 Total Gallons Purged Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used Gonductivity (micromhos/cm) Salinity S% Comments 1 1900 1 1900 1 1900 1 1900 1 1900 5.90 fellow TOC) Sampling Method Gonductivity (micromhos/cm) Salinity S% Comments Figure 1 1900 Figure 2 1900 Fig			
Gallons Removed pH Temp (°c) (micromhos/cm) Salinity S% Comments 2 7.75 SO. Z / STO J 749 74-8 / 1900 1 1-33 72-9 / 1860 Total Gallons Purged — Gallons — Gallons Purged — Gallons — Gallo			
CJ 749 74-8 1900 CD 7-33 72-9 1860 Total Gallons Purged Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used GRAD Jiter 25ml pint	Gallons Removed pH Temp (°c) (micro	mhos/cm) Salinity S%	Comments
Total Gallons Purged Sampling Method Containers Used 7.15 72.9 1860 1910 9 1910 9 1910 9 1910 9 1910 9 1910 9 1910		<u> </u>	
Total Gallons Purged B Gallons Purged Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used Gallon July		<u> 700</u>	
Total Gallons Purged			
Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used 40 ml Signature Feed Sampling (below TOC) Signature Feed Sampling Method Feed Sampling (below TOC) Feed Sampling Method Feed Sampling Method Feed Sampling (below TOC) Feed Sampling Method Feed	<u> </u>		
Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used 40 ml Signature Feed Sampling (below TOC) Signature Feed Sampling Method Feed Sampling (below TOC) Feed Sampling Method Feed Sampling Method Feed Sampling (below TOC) Feed Sampling Method Feed	<u> </u>		anllen
Sampling Method Containers Used And mil liter pint	-	5.90	gallons
Containers Used 40 ml liter pint	Depth to Groundwater Before Sampling (below TOC) -		
Containers Used 40 ml liter pint		iwy	
	Containers Used	pint pint	
PLA	pow		
			PLATE
Subsurface Consultants JOB NUMBER DATE APPROVED	Subsurface Consultants	AATT	APPROVED

WELL SAMPLING FORM

roject Name: Lox Oud, 16c	Well Number:	<u>-0</u>
ob No.: 805.007	Well Casing Diameter:	inch
Sampled By: UDDa	Date: 9/29/95	
FOC Elevation:	Weather:@Luz	
	.	
Depth to Casing Bottom (below TOC)	8.00	
Depth to Groundwater (below TOC)	6.12	
Foot of Water in Well	1.00	
Donth to Groundwater When 80% Recovered		feet
Casing Volume (feet of water x Casing DIA 2 x 0.040	08)	gallons
Depth Measurement Method Tape & Paste	e Electronic Sourider	Other
Free Product		
Purge Method	boller	
	Conductivity micromhos/cm) Salinity S%	Comments
Total Gallons Purged Depth to Groundwater Before Sampling (below TOC	/	gallons
Sampling Method <u>taffin</u> &	liter pint	PLATE
ubsurface Consultants	OB NUMBER DATE	APPROVED

WELL SAMPLING FORM

Project Name: Cox Onditice	Well Number:	
Job No.: 805-077	Well Casing Diameter:	inch
Sampled By: DDG	Date:	
TOC Elevation:	Weather:	
- Was Datter (below TOC)	10.00	feet
Depth to Casing Bottom (below TOC)	10	feet
Depth to Groundwater (below TOC)	4.81	feet
Feet of Water in Well	10.15	feet
Depth to Groundwater When 80% Recovered		
Casing Volume (feet of water x Casing DIA 2 x 0.0408	3)	gallons
Depth Measurement Method Tape & Paste	/ Electronic Sounder / Oth	<u>ier</u>
Free Product		
Purge Method	Beiler	
· · · · · · · · · · · · · · · · · · ·		
FIELD MEAS	UREMENTS	
Gallons Removed pH Temp (°c) (mi	Conductivity (cromhos/cm) Salinity S%	Comments
Total Gallons Purged	3	gallons
-	3	gallons
Depth to Groundwater Before Sampling (below TOC)		_
Depth to Groundwater Before Sampling (below TOC) Sampling Method		_
Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used 2 Interest Containers Used	er pint	_
Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used 2 Interest Containers Used	Porler	feet
Depth to Groundwater Before Sampling (below TOC) Sampling Method Containers Used 2 Interest Containers Used	er pint	_



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

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

ANALYTICAL REPORT

Prepared for:

EOA, Inc. 1410 Jackson Street Oakland, CA 94612

Date: 16-0CT-95

Lab Job Number: 122870 Project ID: CC03

Location: Cox Cadillac

Reviewed by:

Reviewed by:

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LABORATORY NUMBER: 122870

CLIENT: EOA, INC. PROJECT ID: CC03

LOCATION: COX CADILLAC

DATE SAMPLED: 09/29/95 DATE RECEIVED: 09/29/95 DATE ANALYZED: 10/07/95 DATE REPORTED: 10/16/95

BATCH NO: 23699

ANALYSIS: 1,2-Dichloroethane ANALYSIS METHOD: EPA 8240

REPORTING LIMIT UNITS RESULT LAB ID SAMPLE ID 1.0 ug/L 98 MW-1122870-001 1.0 ug/L ND 122870-002 TW-6 1.0 TW-7ND ug/L 122870-003 1.0 ug/L ND METHOD BLANK N/A

ND = Not detected at or above reporting limit.

Curtis & Tompkins, Ltd



8240 Laboratory Control Sample Report

Lab No:

QC06168

LCS Datafile: DJ624

Date Analyzed: 06-0CT-95

Matrix:

WATER

Operator:

 $\mathbf{W}\mathbf{T}$

Batch No:

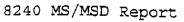
23699 435279228024

Compound	ug/L	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	52.66	50	105 %	61-145%
Trichloroethene	46.97	50	94 %	71-120%
Benzene	52.95	50	106 %	76-127%
Toluene	52.23	50	104 %	76-125%
Chlorobenzene	51.04	50	102 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	51.53	50	103 %	75-143%
Toluene-d8	48.60	50	97 %	77-134%
Bromofluorobenzene	51.00	50	102 %	65-129%

Results within Specifications - PASS

Note: Instrument C and D surrogates based on LCS data

Curtis & Tompkins, Ltd





Matrix Sample Number: 122874-001

Date Analyzed: 06-0CT-95

Lab No: QC06165 QC06166 Matrix: WATER

Spike File: DJ615 Spike Dup File: DJ616

Batch No: 23699 435279177015 435279183016 435279172014 Analyst: TW

	ppb	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	49.3	50	99 %	61-145%
Trichloroethene	44.7	50	89 %	71-120%
Benzene	49.8	50 .	100 %	76-127%
Toluene	50.1	50	100 %	76-125%
Chlorobenzene	49.3	50	99 %	
Surrogate Recoveries	•			
1,2-Dichloroethane-d4	47.5	50	95 %	75-143%
Toluene-d8	48.3	50	97 %	
Bromofluorobenzene	49.4	50	99 %	—— — -
MSD RESULTS				
1,1-Dichloroethene	E2 2	50		
Trichloroethene	53.2	50	106 왕	61-145%
Benzene	47.2 52.9	50	94 %	71-120%
Toluene	54.9 54	50	106 %	76-127%
Chlorobenzene	52.2	50	108 %	76-125%
	J2.4	50	104 %	75-130왕
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.9	50	98 %	75-14 3 %
Toluene-d8	49.1	50	98 %	
Bromofluorobenzene	49.3	50	99 %	65-129%
MATRIX RESULTS				
1,1-Dichloroethene	0			
Trichloroethene	Ō			
Benzene	Ö			
Toluene	ō			-
Chlorobenzene	0			
RPD DATA				
1,1-Dichloroethene	8 %			< 14%
Trichloroethene	5 %		•	< 14%
Benzene	6 %			< 11%
Toluene	7 %			< 13%
Chlorobenzene	6 %			< 13%



TVH-Total Volatile Hydrocarbons

Client: EOA, Inc.

Analysis Method: CA LUFT (EPA 8015M)

Project#: CC03

Prep Method: EPA 5030

Location: Cox Cadillac

Sample #	Client 1	ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122870-001	MW-1		23815	09/29/95	10/12/95	10/12/95	
122870-002	TW-6		23815	09/29/95	10/12/95	10/12/95	
122870-003	TW-7		23764	09/29/95	10/10/95	10/10/95	

Analyte Diln Fac:	Units	122870-001 50	122870-002 30	122870-003 50	
Gasoline	ug/L	43000	47000	74000	
Surrogate		-10.1			
Trifluorotoluene Bromobenzene	%REC %REC	100 99	98 97	97 100	



BTXE

Client: EOA, Inc.

Project#: CC03

Location: Cox Cadillac

Analysis Method: BTXE

Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
122870-001 122870-002		23815 23815	09/29/95 09/29/95	10/12/95 10/12/95	10/12/95 10/12/95	
122870-003	TW-7	23764	09/29/95	10/10/95	10/10/95	

Analyte Diln Fac:	Units	122870-001 50	122870-002 1	122870-003 50	
Benzene	ug/L	5600	19000	32000	
Toluene	ug/L	2200	5200	8700	
Ethylbenzene	ug/L	3800	1500	2900	
m,p-Xylenes	ug/L	5800	2700	6000	
o-Xylene	ug/L	1600	1300	2600	
Surrogate					
Trifluorotoluene	%REC	106	101	115	
Bromobenzene	%REC	97	97	110	



BATCH QC REPORT

Page 1 of 1

TVH-Total Volatile Hydrocarbons

Analysis Method: CA LUFT (EPA 8015M) Client: EOA, Inc.

EPA 5030 Project#: CC03 Prep Method:

Location: Cox Cadillac

METHOD BLANK

10/10/95 Prep Date: Matrix: Water

Analysis Date: 10/10/95 Batch#: 23764 Units: ug/L Diln Fac: 1

Analyte	Result	
Gasoline	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene Bromobenzene	100 100	69-120 70-122



Client:

BATCH QC REPORT

Page 1 of 1

BTXE

Analysis Method: BTXE Prep Method:

EPA 5030

Project#: CC03

EOA, Inc. Location: Cox Cadillac

METHOD BLANK

Water Matrix: Batch#: 23764 Prep Date: Analysis Date: 10/10/95

10/10/95

Units: ug/L 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	107	58-130
Bromobenzene	113	62-131



Client:

Matrix:

Batch#:

BATCH QC REPORT

Page 1 of 1

TVH-Total Volatile Hydrocarbons

Analysis Method: CA LUFT (EPA 8015M)

Prep Method: EPA 5030

Location: Cox Cadillac

Water

23815

EOA, Inc.

METHOD BLANK

10/12/95 Prep Date:

Analysis Date: 10/12/95

Units: ug/L Diln Fac: 1

Project#: CC03

And last o	Result	
Analyte	Veagre	
Gasoline	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	98	69-120
Bromobenzene	96	70-122



BATCH QC REPORT

Page 1 of 1

BTXE

Analysis Method: BTXE

Prep Method:

EPA 5030

Location: Cox Cadillac

Client: EOA, Inc.

Project#: CC03

METHOD BLANK

Prep Date:

10/12/95

Batch#: 23815

Water

Analysis Date: 10/12/95

Units: ug/L Diln Fac: 1

Matrix:

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	99	58-130
Bromobenzene	94	62-131

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

EOA, Inc. Client:

Project#: CC03

Location: Cox Cadillac

Analysis Method: CA LUFT (EPA 8015M)

Prep Method:

EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Batch#:

Diln Fac: 1

Water

23815

Units:

ug/L dry weight

Analysis Date:

10/12/95

Moisture:

Prep Date:

10/12/95

0%

BS Lab ID: QC06540

Analyte	Spike Added	i BS	%Rec #	Limits
Gasoline	2006	1931	96	80-120
Surrogate	%Rec	Limits		
Trifluorotoluene Bromobenzene	87 100	69-120 70-122		

BSD Lab ID: QC06541

Analyte	Spike Added	BSD	%Rec #	RPD #	Limit	
Gasoline	2006	1939	97	80-120	3	<35
Surrogate	%Rec L		3			
Trifluorotoluene Bromobenzene	89 99	69-120 70-120				

[#] 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

Page 1 of 1

BTXE

Client: EOA, Inc.

Project#: CC03

Analysis Method: BTXE Prep Method:

EPA 5030

Location: Cox Cadillac

LABORATORY CONTROL SAMPLE

Prep Date:

10/12/95

Matrix: Water Batch#: 23815

Analysis Date:

10/12/95

Units: ug/L Diln Fac: 1

LCS Lab ID: QC06538

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	19.9	20	100	80-120
Toluene	20.6	20	103	80-120
Ethylbenzene	20.4	20	102	80-120
m,p-Xylenes	40	40	100	80-120
o-Xylene	20.5	20	103	85-120
Surrogate	%Rec	Limits		
Trifluorotoluene	100	58-130		
Bromobenzene	95	62-131		

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

^{*} Values cutside of QC limits

Spike Recovery: 0 out of 5 outside limits



BATCH QC REPORT

Page 1 of 1

BTXE

Client: EOA, Inc.

Project#: CC03

Analysis Method: BTXE Prep Method:

EPA 5030

Location: Cox Cadillac

LABORATORY CONTROL SAMPLE

Prep Date:

10/10/95

Water Matrix: Batch#: 23764

Analysis Date:

10/10/95

Units: ug/L Diln Fac: 1

LCS Lab ID: QC06339

Analyte	Result	Spike Added	%Rec #	Limits
Benzene	19.1	20	96	80-120
Toluene	20.2	20	101	80-120
Ethylbenzene	19.7	20	99	80-120
m,p-Xylenes	38.1	40	95	80-120
o-Xylene	19.9	20	100	85-120
Surrogate	%Rec	Limits		
Trifluorotoluene	107	58-130		
Bromobenzene	116	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

Page 1 of 1

TVH-Total Volatile Hydrocarbons

Analysis Method: CA LUFT (EPA 8015M) Client: EOA, Inc.

Prep Method: EPA 5030 Project#: CC03

Location: Cox Cadillac

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample Date: 10/05/95 Field ID: ZZZZZZ Lab ID: 122938-001 Received Date: 10/05/95 Prep Date: 10/10/95 Matrix: Water Analysis Date: 10/10/95

Batch#: 23764 Units: ug/L Diln Fac: 1

MS Lab ID: QC06341

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	2006	<50.00	2164	108	75-125
Surrogate	%Rec	Limits			
Trifluorotoluene Bromobenzene	106 113	69-120 70-122	-		

MSD Lab ID: QC06342

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	2006	2190	109	75-125	1	<35
Surrogate	%Rec	%Rec Limits				
Trifluorotoluene Bromobenzene	108 113	69-12 70-12				<u>.</u>

[#] 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

CLIENT: EOA, Inc. PROJECT ID: CC03

LOCATION: Cox Cadillac

MATRIX: Filtrate

TW-6

TW-7

Metals Analytical Report

Lead Reporting Sample ID Lab ID Sample Receive Result Limit QC Method Analysis Date Date (ug/L) (ug/L) Batch Date 09/29/95 09/29/95 10/06/95 MW-1122870-001 16 3.0 23687 EPA 6010A

3.3

3.5

3.0

3.0

23687

23687

EPA 6010A

EPA 6010A

122870-002 09/29/95 09/29/95

122870-003 09/29/95 09/29/95

Curtis & Tompkins, Ltd

DATE REPORTED:

10/16/95

10/06/95

10/06/95



CLIENT: EOA, Inc. JOB NUMBER: 122870

DATE REPORTED: 10/16/95

BATCH QC REPORT BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	B\$ Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Lead	500	490	504	ug/L	98	101	100	3	23687	EPA 6010A	10/12/95



CLIENT: EOA, Inc. JOB NUMBER: 122870 DATE REPORTED: 10/16/95

BATCH QC REPORT PREP BLANK

Compound		Result	Reporting Limit	Units	QC Batch	Method	Analysi Date
Lead		ND	3	ug/L	23687	EPA 6010A	10/12/9
	T N	D = Not Detec	ted at or abo	ove rep	orting	limit	



LABORATORY NUMBER: 122870

CLIENT: EOA, INC. PROJECT ID: CC03

LOCATION: COX CADILLAC

DATE SAMPLED: 09/29/95 DATE RECEIVED: 09/29/95 DATE ANALYZED: 10/07/95

DATE REPORTED: 10/07/95

BATCH NO: 23699

ANALYSIS: 1,1-Dichloroethane ANALYSIS METHOD: EPA 8240

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
122870-001 122870-002 122870-003	MW-1 TW-6 TW-7	ND ND ND	ug/L ug/L ug/L	1.0 1.0 1.0
METHOD BLANK	N/A	ND	ug/L	1.0

ND = Not detected at or above reporting limit.

1336,40

CHAIN OF CUSTODY FORM

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Page	10)	

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