January 30, 1995

Mr. Thomas Peacock
Alameda County Health Care Services Agency
Department of Environmental Health
1731 Harbor Bay Parkway
Alameda, CA 94502

SUBJECT:

Well Conversion and First Quarterly Monitoring Report

Cox Cadillac, 230 Bay Place, Oakland, California

Dear Mr. Peacock:

Enclosed is one copy of the "Well Conversion and First Quarterly Monitoring Report" for the Cox Cadillac, 230 Bay Place, Oakland, California site. 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. As recommended in your June 7, 1994 Work Plan approval letter, well TW-2 was used as an 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 and sampling these wells on a quarterly basis.

Please call me if you have any questions regarding the report.

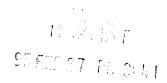
Sincerely,

Mr. Bill Cox

Owner Cox Cadillac

Attachment

F:\CC03\dehcvr.ltr



Eisenberg, Olivieri, & Associates Environmental and Public Health Engineering

January 26, 1995

Mr. Bill Cox 230 Bay Place Oakland, CA 94612

SUBJECT: Well Conversion and First Quarterly Monitoring Report

Dear Mr. Cox:

This letter report summarizes the results of the well conversion and first quarterly monitoring of wells on December 22, 1994 at the property located at 230 Bay Place, Oakland, California. 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.

Three main tasks were completed for this report; 1) wells MW-1, TW-2, TW-6, and TW-7 were checked for free product, then depth to groundwater was measured in them, 2) temporary wells, TW-2, TW-6 and TW-7, which were installed by PES in October of 1993, were converted to permanent wells and permit applications were filed with the County; and 3) 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 field methods used to perform the tasks listed above are described in Attachment 1, "Quarterly Groundwater Monitoring" Report (SCI, January 17, 1995). As reported by SCI, no free product was observed in any of the wells that were monitored. The depth to groundwater was measured and contoured (see Figure 1). For the groundwater surface contour map, 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.

Wells TW-2, TW-6, and TW-7 were retrofitted at grade with water-tight, traffic-rated, utility boxes set in concrete in anticipation of performing periodic groundwater monitoring. The methods for well conversion are described in Attachment 1.

Because the temporary wells, TW-2, TW-6, and TW-7 were not originally permitted, Alameda County Water District (Zone 7) drilling permit applications were completed,

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Mr. Bill Cox January 26, 1995 Page 2

signed, and mailed to Zone 7, along with a copy of the boring logs as found in "Soil and Groundwater Investigation Report", (PES, December 23, 1993). Diagrams of the surface traffic utility boxes were added to the boring log with the date of installation indicated. Copies of the drilling permit applications are in Attachment 2.

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 Manual methodology, and by EPA 5030/8020) and 2) 1,1-, and 1,2-dichloroethane (DCA) (by EPA Method 8010). A copy of the original laboratory analytical report is in Attachment 3 and the results of the groundwater analyses are summarized in Table 1, "Summary of Groundwater Analyses". Locations of the sampled wells with groundwater analyses results are indicated on Figure 2.

#### Results

Based on data collected on December 22, 1994, the general direction of groundwater flow is in a southwesterly direction, toward Lake Merritt; this result is similar to previous observations at this site. The concentrations of chemicals in groundwater are the same order of magnitude as were found in a previous sampling event (*Soil and Groundwater Investigation, Bill Cox Cadillac, 230 Bay Place, Oakland, California*, PES, December 23, 1993). The highest concentrations of all chemicals, with the exception of 1,1- and 1,2-DCA, were found in well TW-7, which is located adjacent to, and downgradient from, the former underground storage tank location. 1,2-DCA was detected only in well MW-1, which is located next to the former waste oil tank location. The lowest concentrations of all chemicals, except ethylbenzene, were found in samples from well TW-6, which is located in a cross-gradient direction from the former underground storage tank location.

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

Sincerely, EOA, Inc.

Don Eisenberg, PhD., P.E.

Don Eser US

President

Attachments

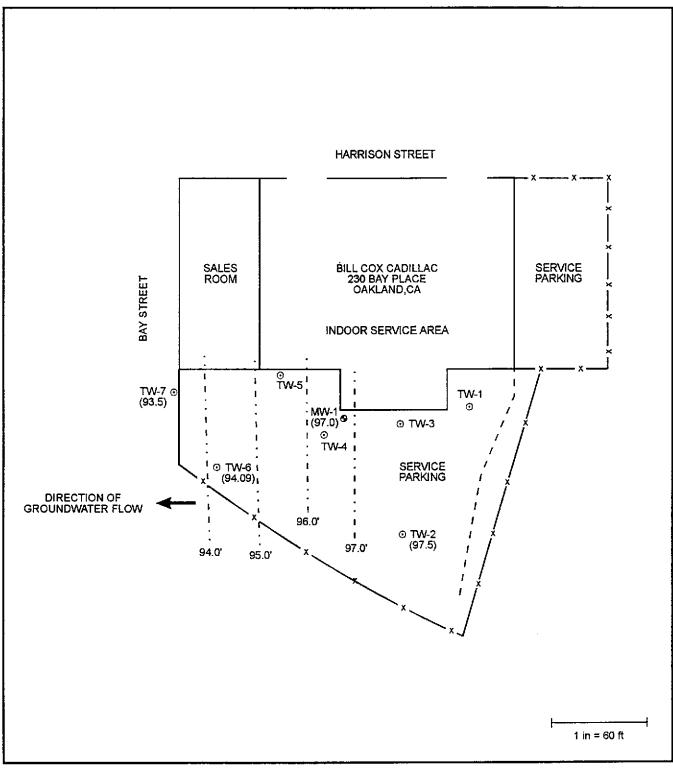
Mr. Bill Cox January 26, 1995 Page 3

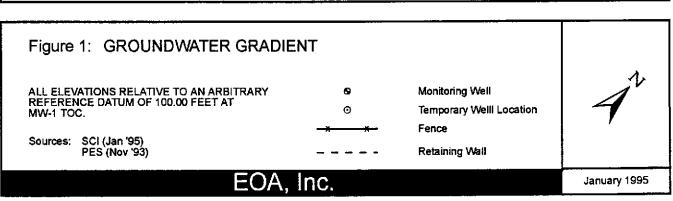
#### **Limitations**

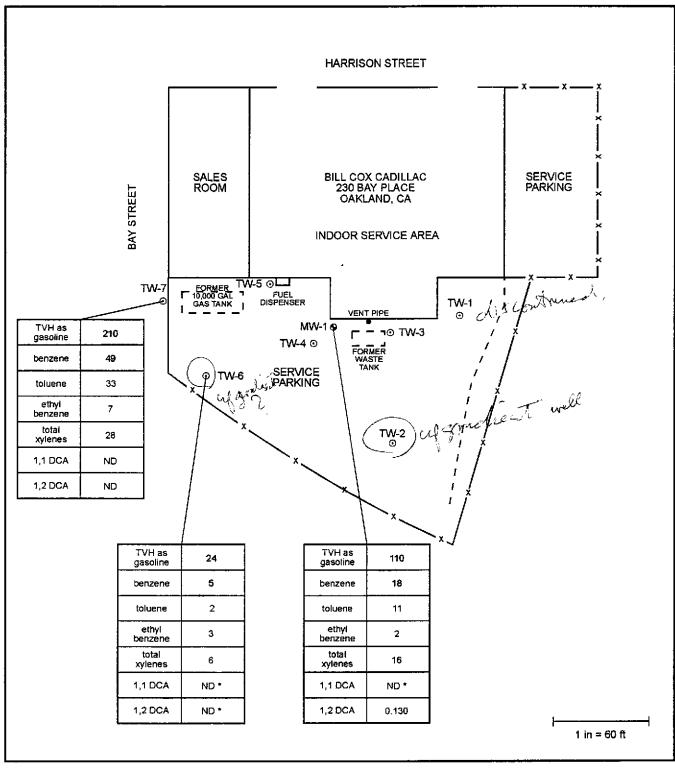
The services performed by EOA, Inc. for this report have been performed using that degree of care and skill ordinarily exercised by reputable professionals practicing under similar circumstances in this or similar localities. No other warranty, expressed or implied, is made by providing these consulting 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.

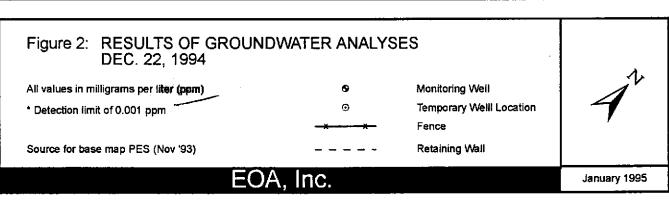
It should be recognized that subsurface conditions may vary from those encountered at the location where samples are collected. The data, interpretation and recommendations of EOA, Inc. are based solely on the information available to EOA, Inc. during the project. EOA, Inc. will be responsible for those 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 1 Summary of Groundwater Analyses Cox Cadillac December 22, 1994

|      | TVH as gasoline | benzene | toluene | ethyl<br>benzene | total<br>xylenes | 1,1<br>DCA | 1,2<br>DCA    |
|------|-----------------|---------|---------|------------------|------------------|------------|---------------|
| MW-1 | 110             | 18      | 11      | 2                | 16               | ND at .001 | .130          |
| TW-6 | 24              | 5       | 2       | 3                | 6                | ND at .001 | ND at<br>.001 |
| TW-7 | 210             | 49      | 33      | 7                | 28               | ND at .001 | ND at<br>.001 |

All values in milligrams per liter (ppm).

210,000 34,000

18,000 Benges. 5,000 Benges.

### LIST OF ATTACHMENTS

Attachment 1. SCI, Inc. Quarterly Groundwater Monitoring and Well Completion

Report

Attachment 2. Zone 7 Water Agency, Drilling Permit Applications

Attachment 3. Laboratory Analytical Report



January 17, 1995 SCI 805.007

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

Quarterly Groundwater Monitoring December 1994 Event Cox Cadillac Facility 230 Bay Street Oakland, California

### Dear Ms. Ragsdale:

This letter presents the results of the December 1994 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:

- 1. Checking wells TW-2, TW-6, TW-7 and MW-1 for free floating product.
- 2. Measuring groundwater depths in wells TW-2, TW-6, TW-7 and MW-1.
- 3. Developing and sampling wells TW-6 and TW-7.
- 4. Purging and sampling well MW-1.
- 5. Retrofitting the well heads for wells TW2, TW-6 and TW-7.

# Subsurface Consultants, Inc.

Ms. Sherris Ragsdale Eisenberg, Olivieri, and Associates January 17, 1995 SCI 805.007 Page 2

### **Groundwater Sampling**

On December 22, 1994, 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.

Prior to sampling, well MW-1 was purged of about 4 well volumes of water by using a new disposable bailer and wells TW-6 and TW-7 were each developed by bailing them dry with new disposable bailers. Once the wells had recovered to at least 80 percent of their initial levels, they were sampled with new disposable bailers. Purge and development water were placed in 55-gallon drums which were labeled and left on-site for later disposal by others.

The 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.

### Well Retrofitting

During sampling it was observed that the top of casing for wells TW-2, TW-6 and TW-7 were each finished below the surface with either a slip cap or a locking cap, covered with 2 to 3 inches of pea gravel. Water had accumulated in the pea gravel layer and had to be removed prior to removing the well caps. The pea gravel was covered with asphalt concrete. After completion of sampling activities, these wells were retrofitted as follows:

- 1. The pea gravel was removed to a depth of about 3 inches below the TOC.
- 2. The existing caps were replaced with locking caps with keyed alike locks.
- 3. The well heads were completed at grade with water-tight traffic-rated utility boxes set in concrete.

### 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 December 1995. As a result, the next monthly event will be performed during the week of January 23, 1995 and the next quarterly event will be performed during the week of March 20, 1995.

■ Subsurface Consultants, Inc.

Ms. Sherris Ragsdale Eisenberg, Olivieri, and Associates January 17, 1995 SCI 805.007 Page 3

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

Jeriann N. Alexander

Civil Engineer 40469 (expires 3/31/95)

JNA:RWR:sld

Attachments: Table 1. Groundwater Elevation Data

alexander

Plate 1. Site Plan Well Sampling Forms

2 copies submitted

Subsurface Consultants, Inc.

Table 1. Groundwater Elevation Data

| <u>Well Number</u> | <u>Date</u>          | TOC<br>Elevation*<br>(feet) | Depth to<br>Water<br>(feet) | Groundwater<br>Elevation<br><u>(feet)</u> |
|--------------------|----------------------|-----------------------------|-----------------------------|---|
| TW-1               | 10/13/93             | 100.91                      | 0.06                        | 100.85                                    |
| TW-2               | 10/13/93<br>12/22/94 | 100.43                      | 2.32<br>2.88                | 98.11<br>97.55                            |
| 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<br>12/22/94 | 98.75                       | 5.40<br>4.66                | 93.35<br>94.09                            |
| TW-7               | 10/14/93<br>12/22/94 | 97.96                       | 5.40<br>4.50                | 92.56<br>93.46                            |
| MW-1               | 10/13/93<br>12/22/94 | 100.00                      | 3.55<br>2.96                | 96.45<br>97.04                            |

Depths are measured below Top of Casing (TOC)

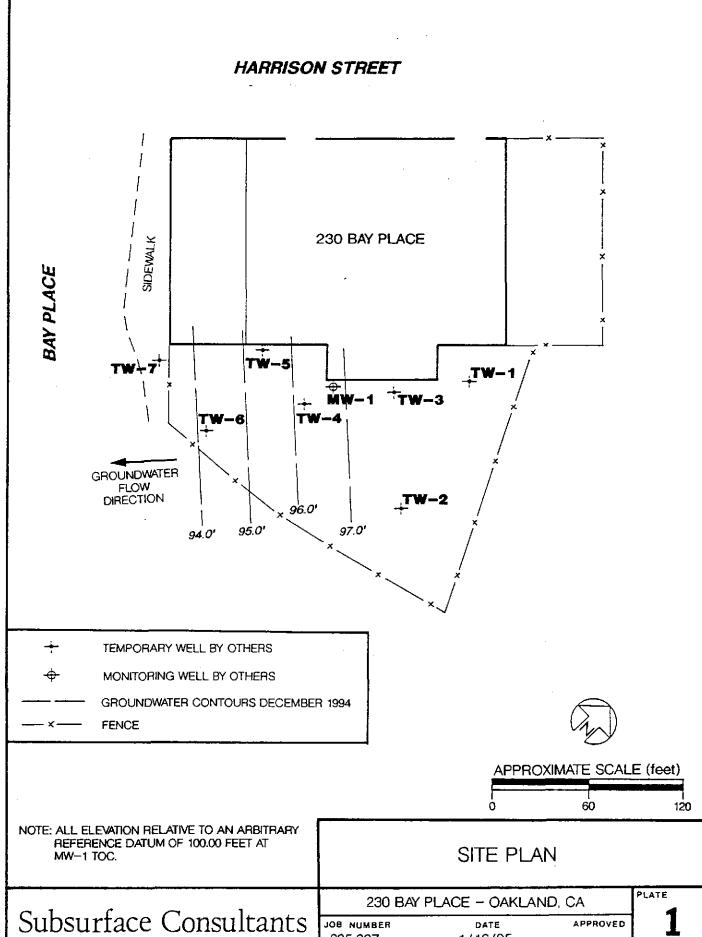
<sup>\*</sup> Elevations are referenced to the TOC for MW-1, which was assumed by others to have an elevation 100.00 feet

| Project Name: CX CV   | Vell Number: MW   |
|---|---|
| Job No.:  | Well Casing Diameter: 2 ir  |
| Sampled By: ADDIA   | Date: 12/22/94  |
| TOC Elevation:  | Weather:  |
| Depth to Casing Bottom (below TOC)  |   |
| Depth to Groundwater (below TOC) _  | 2'11/2"   |
| Feet of Water in Well   | <u> </u>  |
| Depth to Groundwater When 80% Reco  | overed fe   |
| Casing Volume (feet of water x Casing   | DIA <sup>2</sup> × 0.0408) gailo  |
| Depth Measurement Method  | none  |
| Purge Method  | effon bailer  |
|   |   |
| FIE<br>Gailons Removed pH Tem   | Conductivity  p (°c) (micromhos/cm) Salinity S% Comments  9.9 1269 9 9450/00  1.1 1116 1000  3.9 1349   |
| File  Gaillons Removed pH Tem  1.08 5  2.16 6  3.7.06 6  7.03 6  Total Gaillons Purged  | Conductivity sp (°c) (micromhos/cm) Salinity S% Comments  199 1369 990000000000000000000000000000000000 |
| File Gaillons Removed pH Tem  1.08 5  2.16 6  3.7.16 6  3.7.03 6  Total Gaillons Purged  Depth to Groundwater Before Sampling ( | Conductivity  Ip (°c) (micromhos/cm) Salinity S% Comments  G. 9 1369 Gusning  1.1 1116 Judo 1  3.4 1466 |
| File Sallons Removed pH Tem  1 7.08 5  2 7.16 6  3 7.06 6  4 7.03 6   | Conductivity sp (°c) (micromhos/cm) Salinity S% Comments  199 1369 990000000000000000000000000000000000 |

**WELL SAMPLING FORM** 

| WELL SA   | MPLING FORM                               |          |
|---|---|----------|
| Project Name: ON Adilloc  | Well Number:                              | TW 6     |
| Job No.:  | Well Casing Diameter:                     | inch     |
| Sampled By: 20Dea   | Date:                                     | 2/96     |
| TOC Elevation:  | Weather:Cla                               | 242      |
| Depth to Casing Bottom (below TOC)                              | 10  | feet     |
| Depth to Groundwater (below TOC)                                | 4' 71/8"                                  | feet     |
| Feet of Water in Well   | 5' 4/8"                                   | feet     |
| Depth to Groundwater When 80% Recovered                         |   | feet     |
| Casing Volume (feet of water x Casing DIA 2 x 0.040             | 0 . 89                                    | gallons  |
| Depth Measurement Method Tabe & Past                            | Electronic Sounder                        | / Other  |
| Free Product  | re  |          |
| Purge Method  | built.                                    |          |
| Gallons Removed pH Temp (°c) (m                                 | Conductivity icromhos/cm) Salinity S% 975 | Comments |
| epth to Groundwater Before Sampling (below TOC)  ampling Method | baileddy<br>Jak                           | gallons  |
| ontainers Used 40 ml lifte                                      | pint                                      | PLATE    |

| 1.1. 11  |  |
|--|--|
| Job No.:   | Well Casing Diameter:i                         |
| Sampled By: CODea  | Date:  |
| TOC Elevation:   | Weather:                                       |
| Depth to Casing Bottom (below TOC)                                       |  |
| Depth to Groundwater (below TOC)   | 41 1/2" (w/keijex)                             |
| Feet of Water in Well  | 5' 11/z"                                       |
| Depth to Groundwater When 80% Recovered                                  |  |
| Casing Volume (feet of water x Casing DIA 2 x 0.0408)                    | , 98 gallo                                     |
| Depth Measurement Method Tape & Paste                                    | / Electronic Sounder / Other                   |
| Free Product   |  |
| Purge Method   | bailer   |
| delignate   Temp (°c) (micro   | nductivity omhos/cm) Salinity S% Comments  545 |
| 1 6.57 62.1 6  | + bailed dres calle                            |
| otal Gallons Purged  | gan  |
| epth to Groundwater Before Sampling (below TOC) - ampling Method  Tellon | bailex   |
| ampling Method Office Containers Used 40 ml liter                        |  |



805.007

1/16/95



SIGNATURE

## **ZONE 7 WATER AGENCY**

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

### DRILLING PERMIT APPLICATION

for well TW-2

| FOR APPLICANT TO COMPLETE   | FOR OFFICE USE   |  |  |  |
|---|--|--|--|--|
| EOCATION OF PROJECT 130 Ray Place OAKland, DA. 94611  | PERMIT NUMBER LOCATION NUMBER  |  |  |  |
| CLIENT  Hame RII Cox  Iddress 130 Bay Place Voice  City Cakland CA Zip 94613  | PERMIT CONDITIONS  Circled Permit Requirements Apply   |  |  |  |
| PPLICANT Name  Fax  Iddress  Voice  City  Zip   YPE OF PROJECT  Vell Construction  Cathodic Protection  Geotechnical Investigation  General                     | A. GENERAL     A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.     Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.     Permit is void if project not begun within 90 days of approval |  |  |  |
| Water Supply Contamination  Monitoring Well Destruction  PROPOSED WATER SUPPLY WELL USE  Tomestic Industrial Other  Municipal Irrigation                        | date.  8. WATER WELLS, INCLUDING PIEZOMETERS  1. Minimum surface seal thickness is two inches of cement grout placed by tremie.  2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser  |  |  |  |
| PRILLING METHOD:  Auger X  Cable Other  PRILLER'S LICENSE NO. 46794 - Clear heart   | depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.  C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.   |  |  |  |
| WELL PROJECTS  Drill Hole Diameter 8 in. Maximum  Casing Diameter in. Depth ft.  Surface Seal Depth ft. Number  | <ul><li>D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.</li><li>E. WELL DESTRUCTION. See attached.</li></ul>   |  |  |  |
| Number of Borings Maximum  Hole Diameter In. Depth ft.  |  |  |  |  |
| ESTIMATED STARTING DATE  ESTIMATED COMPLETION DATE  LD 11193  LT 114 box added H13194  Thereby agree to comply with all requirements of this permit and Alameda | ApprovedDate   |  |  |  |
| County Ordinance No. 73-68  |  |  |  |  |

Date 1/26/95



# **ZONE 7 WATER AGENCY**

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

## DRILLING PERMIT APPLICATION

for well TW-6

| FOR APPLICANT TO COMPLETE  | FOR OFFICE USE   |  |  |
|--|--|--|--|
| LOCATION OF PROJECT 130 Ray Place Dakland, POA, 94611  | PERMIT NUMBER LOCATION NUMBER  |  |  |
| CLIENT  Name    SII Cox     Address   130   Siii   Place   Voice     City   Ockland (A   Zip   9461)   | PERMIT CONDITIONS  Circled Permit Requirements Apply   |  |  |
| APPLICANT Name  Fax  Address  City  Zip  TYPE OF PROJECT  Well Construction  Cathodic Protection  Water Supply  Monitoring  PROPOSED WATER SUPPLY WELL USE  Domestic Industrial Other  Municipal Irrigation  DRILLING METHOD:  Mud Rotary  Cable  Other  DRILLER'S LICENSE NO.  WELL PROJECTS  Orill Hole Diameter  Casing Diameter  In Augen  In Augen  Casing Diameter  In Maximum  Casing Diameter  In Maximum  In Depth  It. | <ol> <li>A. GENERAL         <ol> <li>A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.</li> <li>Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.</li> <li>Permit is void if project not begun within 90 days of approval date.</li> </ol> </li> <li>B. WATER WELLS, INCLUDING PIEZOMETERS         <ol> <li>Minimum surface seal thickness is two Inches of cament grout placed by tremie.</li> <li>Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.</li> <li>GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.</li> <li>CATHODIC. Fill hole above anode zone with concrete placed by tremie.</li> <li>WELL DESTRUCTION. See attached.</li> </ol> </li> </ol> |  |  |
| Surface Seal Depth ft. Number  GEOTECHNICAL PROJECTS  Number of Borings  |  |  |  |
| ESTIMATED STARTING DATE  ESTIMATED COMPLETION DATE  LD   1/23  Lt. l.t. box added 11/21/24  I hereby agree to comply with all requirements of this permit and Alameda  | ApprovedDate   |  |  |

1/26/95



# **ZONE 7 WATER AGENCY**

5997 PARKSIDE DRIVE

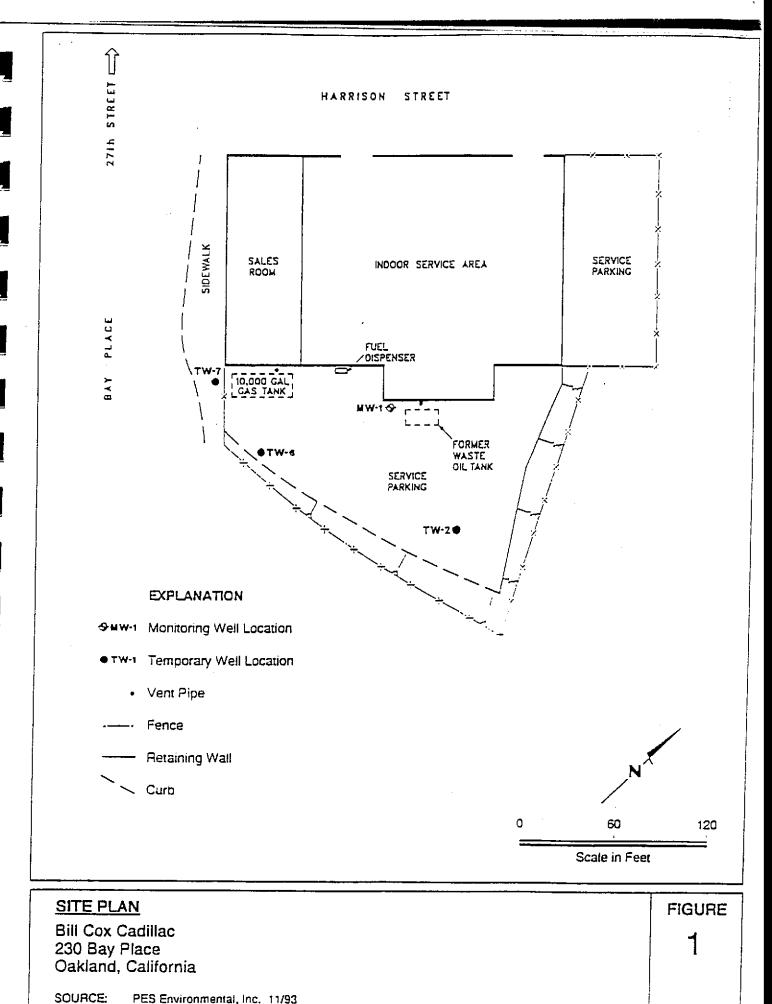
PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

## DRILLING PERMIT APPLICATION

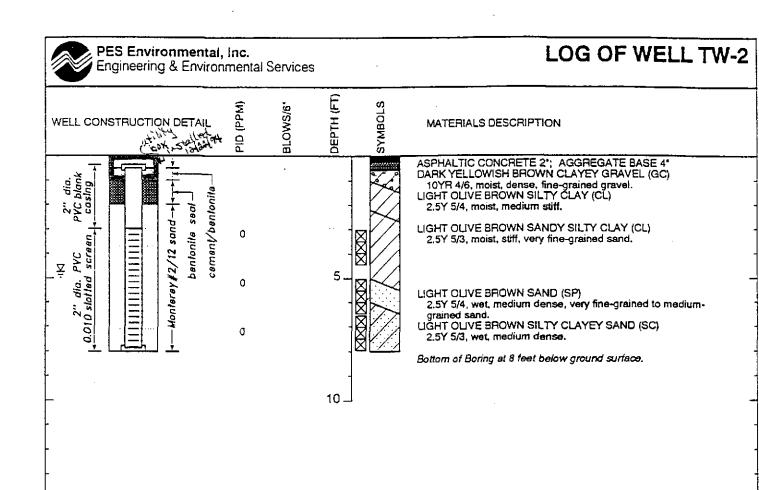
for well TW-7

| FOR APPLICANT TO COMPLETE  | FOR OFFICE USE   |  |  |  |
|--|--|--|--|--|
| LOCATION OF PROJECT 130 Ray Place  | PERMIT NUMBER LOCATION NUMBER  |  |  |  |
| CLIENT Name RICOX Address 130 Ru. Place Voice City Odklawd CA Zip 94613  | PERMIT CONDITIONS  Circled Permit Requirements Apply   |  |  |  |
| APPLICANT  Name Scare as alient  Fax  Address Voice  City Zip  | A. GENERAL     A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.     Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well   |  |  |  |
| TYPE OF PROJECT  Well Construction Geotechnical Investigation  Cathodic Protection General  Water Supply Contamination  Monitoring Well Destruction                              | Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.  3. Permit is void if project not begun within 90 days of approval date.  B. WATER WELLS, INCLUDING PIEZOMETERS  1. Minimum surface seal thickness is two inches of cement grout                                    |  |  |  |
| PROPOSED WATER SUPPLY WELL USE  Domestic Industrial Other  Municipal Irrigation  DRILLING METHOD:  Mud Rotary Air Rotary Auger   | placed by tremie.  2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.  C. GEOTECHNICAL Backfill bore hole with compacted cuttings or |  |  |  |
| Cable Other  DRILLER'S LICENSE NO. 46904 - Clearwort  Construction  WELL PROJECTS  Drill Hole Diameter In. Maximum  Casing Diameter in. Depth ft.  Surface Seal Depth ft. Number | heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted curtings.  D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.  E. WELL DESTRUCTION. See attached.  |  |  |  |
| GEOTECHNICAL PROJECTS  Number of Borings Maximum  Hole Diameter in. Depth ft.  |  |  |  |  |
| ESTIMATED STARTING DATE  ESTIMATED COMPLETION DATE  ID 11193  Lifty box added 143194  I hereby agree to comply with all requirements of this permit and Alameda                  | ApprovedDate   |  |  |  |



FACCONSITEPLANIWKI

EOA, Inc.



CLIENT

Cox Cadillac

LOCATION

230 Bay Place, Oakland, California

JOB NUMBER

167.0200.002

GEOLOGIST/ENGINEER D. Trumbly
DRILL RIG Deep Rock 10K w

Deep Rock 10K with 8\* Hollow Stem Auger

DIAMETER OF HOLE

8 inches

TOTAL DEPTH OF HOLE 8 feet

TOP OF CASING ELEVATION 0.3 feet below ground level

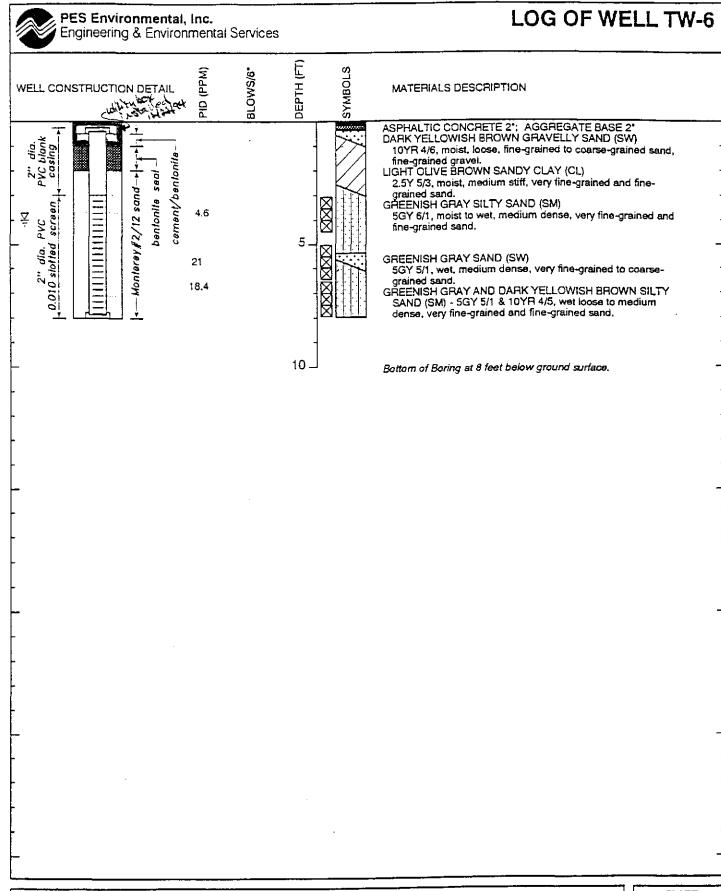
DATE STARTED

10/11/93

DATE COMPLETED 10/11/93

PLATE

**A-4** 



CLIENT C

Cox Cadillac

230 Bay Place, Oakland, California

JOB NUMBER

LOCATION

167.0200.002

GEOLOGIST/ENGINEER D. Trumbly

DRILL RIG Deep Rock 10

Deep Rock 10K with 8\* Hollow Stem Auger

DIAMETER OF HOLE

8 inches

TOTAL DEPTH OF HOLE 8 feet

TOP OF CASING ELEVATION 0.25 feet below ground level

DATE STARTED

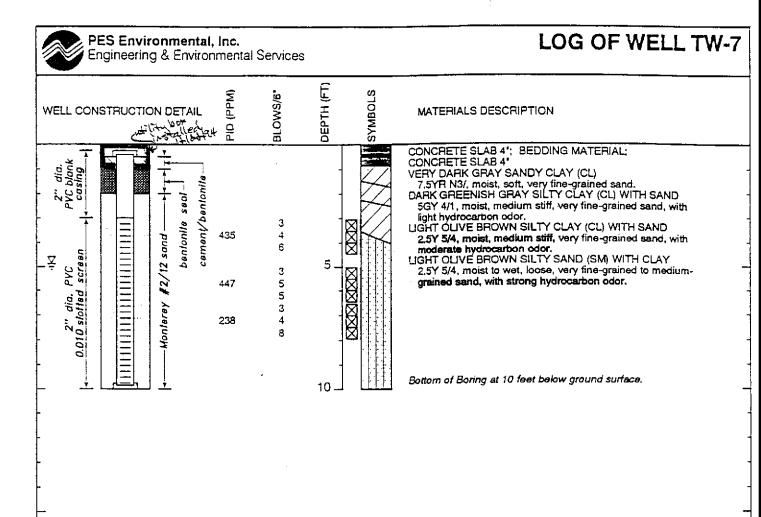
10/12/93

DATE COMPLETED

10/12/93

PLATE

**8-A** 



CLIENT Cox Cadillac

LOCATION 230 Bay Place, Oakland, California

JOB NUMBER

167.0200.002

GEOLOGIST/ENGINEER D. Trumbly
DRILL RIG Deep Rock 10K with 8\* Hollow Stem Auger

DIAMETER OF HOLE

8 inches

TOTAL DEPTH OF HOLE

10 feet

TOP OF CASING ELEVATION 0.25 feet below ground level

CATE STARTED

10/12/93

DATE COMPLETED

10/12/93

PLATE

**A-9** 



## 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: 24-JAN-95

Lab Job Number: 119254 Project ID: CC02

Location: Cox Cadillac

Reviewed by:

Reviewed by:

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Berkeley Irvine



LABORATORY NUMBER: 119254

CLIENT: EOA, INC. PROJECT ID: CC02

LOCATION: COX CADILLAC

DATE SAMPLED: 12/22/94 DATE RECEIVED: 12/22/94 DATE ANALYZED: 12/31/94

DATE REPORTED: 01/10/95 DATE REVISED: 01/24/95

BATCH NO: 18348

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions TVH by California DOHS Method/LUFT Manual October 1989 BTXE by EPA 5030/8020

| LAB ID                                 | SAMPLE ID          | TVH AS<br>GASOLINE<br>(ug/L) | BENZENE<br>(ug/L)         | TOLUENE (ug/L)            | ETHYL<br>BENZENE<br>(ug/L) | TOTAL<br>XYLENES<br>(ug/L) |
|--|--------------------|------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| 119254-001<br>119254-002<br>119254-003 | MW-1<br>TW6<br>TW7 | 110,000<br>24,000<br>210,000 | 18,000<br>5,400<br>49,000 | 11,000<br>2,700<br>33,000 | 2,800<br>3,100<br>7,300    | 16,000<br>6,800<br>28,000  |
| METHOD BLAN                            | K N/A              | ND(50)                       | ND(0.5)                   | ND(0.5)                   | ND(0.5)                    | ND(0.5)                    |

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: BS/BSD

RPD, % <1
RECOVERY, % 98



LABORATORY NUMBER: 119254-001

CLIENT: EOA, INC. PROJECT ID:CC02

LOCATION: COX CADILLAC

SAMPLE ID: MW1

DATE SAMPLED: 12/22/94
DATE RECEIVED: 12/22/94
DATE ANALYZED: 01/03/95
DATE REPORTED: 01/10/95
DATE REVISED: 01/24/95

BATCH NO: 18363

| ANALYSIS           | RESULT | UNITS | REPORTING<br>LIMIT | METHOD   |
|--------------------|--------|-------|--------------------|----------|
| 1,1-Dichloroethane | ND     | ug/L  | 1.0                | EPA 8240 |
| 1,2-Dichloroethane | 130    | ug/L  | 1.0                | EPA 8240 |

ND = Not detected at or above reporting limit.

### SURROGATE RECOVERY

1,2-Dichloroethane-d4 89 %



LABORATORY NUMBER: 119254-002

CLIENT: EOA, INC. PROJECT ID:CC02

LOCATION: COX CADILLAC

SAMPLE ID: TW6

DATE SAMPLED: 12/22/94
DATE RECEIVED: 12/22/94
DATE ANALYZED: 01/03/95
DATE REPORTED: 01/10/95
DATE REVISED: 01/24/95

BATCH NO: 18363

| ANALYSIS .         | RESULT | UNITS | REPORTING<br>LIMIT | METHOD   |
|--------------------|--------|-------|--------------------|----------|
| 1,1-Dichloroethane | ND     | ug/L  | 1.0                | EPA 8240 |
| 1,2-Dichloroethane | ND     | ug/L  |                    | EPA 8240 |

ND = Not detected at or above reporting limit.

### SURROGATE RECOVERY

1,2-Dichloroethane-d4 83 %



LABORATORY NUMBER: 119254-003

CLIENT: EOA, INC. PROJECT ID: CC02

LOCATION: COX CADILLAC

SAMPLE ID: TW7

DATE SAMPLED: 12/22/94
DATE RECEIVED: 12/22/94
DATE ANALYZED: 01/04/95
DATE REPORTED: 01/10/95
DATE REVISED: 01/24/95

BATCH NO: 18363

| ANALYSIS           | RESULT | UNITS | REPORTING<br>LIMIT | METHOD   |
|--------------------|--------|-------|--------------------|----------|
| 1,1-Dichloroethane | ND     | ug/L  | 1.0                | EPA 8240 |
| 1,2-Dichloroethane | ND     | ug/L  |                    | EPA 8240 |

ND = Not detected at or above reporting limit.

### SURROGATE RECOVERY

| 1,2-Dichloroethane-d4 | 85 % |  |  |
|-----------------------|------|--|--|
|                       |      |  |  |



LABORATORY NUMBER: 119254 METHOD BLANK

CLIENT: EOA, INC. PROJECT ID:CC02

LOCATION: COX CADILLAC

SAMPLE ID: N/A

DATE SAMPLED: N/A DATE RECEIVED: N/A

DATE ANALYZED: 01/03/95 DATE REPORTED: 01/10/95 DATE REVISED: 01/24/95

BATCH NO: 18363

| ANALYSIS           | RESULT | UNITS | REPORTING<br>LIMIT | METHOD   |
|--------------------|--------|-------|--------------------|----------|
| 1,1-Dichloroethane | ND     | ug/L  | 1.0                | EPA 8240 |
| 1,2-Dichloroethane | ND     | ug/Ľ  | 1.0                | EPA 8240 |

ND = Not detected at or above reporting limit.

### SURROGATE RECOVERY

| 1,2-Dichloroethane-d4 | 79 % |  |  |
|-----------------------|------|--|--|
|                       |      |  |  |

7671 119254 EOA, Inc. Beanberg, Glivfert, & Associates Co. Environmental and Public Health Engineers 1410 Jackson Street Dalland, CA 91812 (115) 612-1452 Phone HOTES TO LAB e) Specify analytic method and detection b) Hotily us if there are any anomalous MQC Laboratory Hame; e) Dupfleates are listed in parentheare. AR 114495 di any questionsicalifications: gall us Sample! Simpling Container Analyzel Tuin-Analytic Matho-V imple ID DALE [yge(#) Hold [2] #iound (3) Analyze For: Selection Umil Comments Musi-THI TOUS BTEX mul-1 8010 MA 8010 EWAT 8010 3,20 B. Roleneed By (Manttute), Dale, Time B. Received By (Signature), Date, Time Received By Lib Personnel, Unie, Time Lab Telephone Chipping Carrier, Mathod, Date

(1) - Sample Type Godes: Vf - Waler, 8 = Soil, 0 = Other (specify).

Container Type Godes: V - VOA Hottle, P - Pinetic Bottle, G = Glass Bottle, T = Bissa Subs, O = Other (specify)

[1] - Analyze/Hold: A - Analyze, HOLD (opell out - Do not analyze unless pecessary or requested,

[3] - Turneround: N - Normal turneround, P - I week turneround, R - 25 hour bineround.

 $\mathcal{H}^{2,1}$ 

1-24-1995 12:44PM