

August 2, 1990

Alameda County Health Department Department of Environmental Health 80 Swan Way, Suite 200 Oakland, CA 94621

Attention:

Mr. Gil Wistar

Subject:

June Quarterly Report

Shell Oil Company, 230 MacArthur Boulevard, Oakland, California

Exceltech Project No. 1847-2G

Dear Mr. Wistar:

Enclosed is a copy of the June Quarterly Report issued July 3, 1990. Our records indicate that you have not acknowledged receipt of this document. We regret any inconvenience that this may have caused. If you have any questions, please feel free to call.

Sincerely,

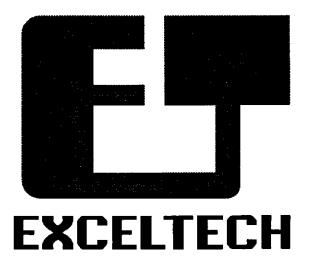
N. Kay Pannell Staff Geologist

NKP:jcd Enclosure

cc:

Diane M. Lundquist, Shell Oil Company

Randall L. Stone, Exceltech, Inc.



JUNE QUARTERLY REPORT GROUNDWATER SAMPLING AND ANALYSIS

FOR

SHELL SERVICE STATION 230 MACARTHUR BOULEVARD OAKLAND, CALIFORNIA

> Project No. 1847-2G July 1990



July 3, 1990

Shell Oil Company 1390 Willow Pass Road, Suite 900 Concord, CA 94520

Attention:

Ms. Diane Lundquist

Subject:

June Quarterly Report

Groundwater Sampling and Analysis

Shell Gas Station, 230 MacArthur Boulevard, Oakland, California

Exceltech Project No. 1847-2G

Dear Ms. Lundquist:

At the request of Shell Oil Company, Exceltech, Inc., (Exceltech) has prepared this letter report containing the results of the June 7, 1990 groundwater sampling at the subject site in the City of Oakland, Alameda County, California (Figure 1). This report also contains a groundwater elevation map for June 1990 (Figure 2), and the results of a shallow groundwater study conducted on May 19, 1990.

Shallow Groundwater Investigation

CHIPS Environmental Consultants, Inc., under contract to Exceltech, performed a shallow groundwater survey on May 19, 1990. A series of six perforated steel pipes were driven into the ground along MacArthur Boulevard (see Figure 3) using a pneumatic jackhammer mounted on a forklift. Groundwater samples were collected from the 1-inch-diameter hollow pipes and analyzed on-site with the CHIPS mobile laboratory's gas chromatograph. The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHG); and benzene, toluene, ethyl benzene, and xylenes (BTEX). The analytical results are summarized in Table 1. The CHIPS shallow groundwater investigation report is presented in Appendix A.

Groundwater Sampling

Groundwater samples were collected from four groundwater monitoring wells on the site in accordance with Exceltech's groundwater sampling protocol (Appendix B). The groundwater purged from the wells and equipment rinse water were placed in Department of Transportation-approved drums and left on-site pending authorization to have them pumped for disposal. A summary of groundwater sampling data are presented on Table 2.

Laboratory Analysis

Sequoia Analytical Laboratory of Redwood City, California, a state-certified laboratory, analyzed the groundwater samples for the presence of total petroleum hydrocarbons as gasoline (TPHG), and benzene, toluene, ethyl benzene, and total xylenes (BTEX). Samples were also analyzed for total dissolved solids (TDS).



Summary of Laboratory Results

The results of the shallow groundwater survey are summarized in Table 1; groundwater analyses are summarized in Table 2. Copies of the analytical reports from Sequuia Analytical Laboratory and chain-of-custody documents are attached in Appendix C.

Discussion

The groundwater surface contour map developed from the water level measurements is presented as Figure 2. The apparent groundwater surface inclination increased from 0.008 feet per foot to 0.011 feet per foot during this quarter. The groundwater level rose from 0.07 feet to 0.19 feet in MW-1, MW-3, and MW-4; and it dropped 0.18 feet in MW-2. Hydrocarbon concentrations in MW-4 have decreased in magnitude from March 1990 sample results. Hydrocarbon concentrations were not detected in the other wells.

Reporting Requirements

Shell Oil company should forward a copy of this report to the following agencies in a timely manner:

Alameda County Flood Control and Water Conservation District 5997 Parkside Drive Pleasanton, California 94566 Attention: Mr. Craig Mayfield Regional Water Quality Control Board San Francisco Bay Region 1800 Harrison Street, Suite 700 Oakland, California 94512-3429 Attention: Ms. Lisa McCann

Alameda County Health Department Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621 Attention: Mr. Gil Wistar

Disclaimer

This report has been prepared soley for the use of Shell and any relaince on this report by third parties shall be as such party's sole risk.

Limitations

The discussion and recommendations presented in this report are based on the following:

- 1. The exploratory test borings drilled at the site.
- 2. The observations by field personnel.
- 3. The results of laboratory analyses performed by a state-certified laboratory.
- 4. Our understanding of the regulations of the State of California and Alameda County and/or the City of Oakland.

It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation. Also, changes in the groundwater conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors.

The service performed by Exceltech has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the Oakland area. Please note that contamination of soil and groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

Exceltech includes in this report chemical analytical data from a state-certified laboratory. The analytical results are performed according to procedures suggested by the U.S. EPA and State of California. Exceltech is not responsible for laboratory errors in procedure or result reporting.

If you have any questions or require additional information, please call.

Sincerely, Exceltech, Inc.

Kay Pannell Staff Geologist

Ly Parmell

KP/NHZ/sr Enclosure Neil H. Zickefoose C.E.G. 398

Senior Program Geologist

Exceltech, Inc. 7/1/90

TABLE 1 **SHALLOW GROUNDWATER SURVEY RESULTS**

Sample Number	Depth (ft) below grade	TPHG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Xylenes (ppm)
Probe 1	19'	N D	N D	ND	N D	ND
Probe 2	19'	25	0.28	0.29	0.16	0.47
Probe 3	18'	N D	N D	ND	ND	N D
Probe 4	18'	N D	0.005	ND	0.002	N D
Probe 5	18'	N D	0.001	0.002	0.001	0.004
Probe 6	18'	31	0.43	0.60	0.24	1.4

LEGEND TPHG

Total petroleum hydrocarbons as gasoline Not detected at or above laobratory analytical detection limits ND

TABLE 2
GROUNDWATER ANALYSES DATA

Well	Date Sampled	TPHG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	TDS (ppm)	Well Elevation (ft.)	Depth To Water (ft.)
MW-1	7/14/88	ND	N D	N D	N D	ND	N A	73.89	13.30
	10/4/88	BRL	0.008	0.0043	BRL	0.009	ΝA		13.65
	11/10/88	BRL	BRL	BRL	BRL	BRL	NA		13.55
	12/9/88	ND	ND	ND	ND	ND	NΑ		13.22
	1/10/89	ND	ND	N D	ND	ND	ΝA		12.86
	1/20/89	N A	N A	NA	NA	NA	ΝA		12.91
	2/6/89	ND	N D	N D	N D	ND	NA		12.94
	3/10/89	ND	ND	ND	ND	ND	ΝA		12.59
	6/6/89	ND	ND	ND	ND	ND	NA		14.05
	9/7/89	ND	ND	ND	ND	ND	ΝA		14.92
	12/18/89	ND	ND	ND	ND	ND	ΝA		14.88
	3/8/90	ND	ND	ND	ND	ND	420		14.08
	6/7/90	ND	ND	ND	ND	ND	430		13.89
MW-2	7/14/88	N D	0.0079	0.0026	0.0011	0.004	N A	75.24	15.18
	10/4/88	0.09	BRL	0.0013	0.0025	0.012	N A		15.30
	11/10/88	BRL	BRL	BRL	BRL	0.002	ΝA		15.17
	12/9/88	ND	ND	0.0006	ND	0.003	ΝA		14.82
	1/20/89	ND	ND	ND	ND	N D	456		14.54
	2/6/89	ND	ND	ND	ND	ND	400		14.59
	3/10/89	ND	ND	ND	ND	ND	407		14.88
	6/6/89	ND	N D	ND	ND	ND	ΝA		15.30
	9/7/89	ND	ND	ND	ND	ND	NA		16.76
	12/18/89	ND	ND	0.0005	ND	ND	NΑ		16.65
	3/8/90	ND	ND	ND	ND	ND	380		15.92
	6/7/90	ND	ND	ND	ND	ND	380		16.10
MW-3	7/14/88	ND	N D	ND	N D	ND	N A	74.68	14.05
-	10/4/88	BRL	BRL	BRL	BRL	0.005	NA		14.60
	11/10/88	BRL	BRL	BRL	BRL	BRL	NA		14.35
	12/9/88	N D	N D	ND	ND	ND	NA		14.04

Exceltech, Inc. 7/1/90

TABLE 2 **GROUNDWATER ANALYSES DATA**

Well	Date Sampled	TPHG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	TDS (ppm)	Well Elevation (ft.)	Depth To Water (ft.)
MW-3 con't	1/10/89	ND	ND	N D	ND	N D	NΑ		13.70
	1/20/89	NA	NA	ΝA	NA	ΝA	ΝA		13.72
	2/6/89	0.07	ND	N D	ND	ND	N A		13.75
	3/10/89	0.15	ND	ND	ND	ND	ΝA		13.42
	6/6/89	ND	ND	N D	N D	N D	NΑ		14.52
	9/7/89	N D	0.00065	ND	ND	ND	NA		15.52
	12/6/89	0.04	0.0013	ND	0.00044	0.00066	NA		19.59
	3/8/90	ND	ND	ND	ND	ND	440		14.72
	6/7/90	ND	ND	ND	ND	ND	490		14.65
MW-4	1/23/90	1.6	0.1	0.01	0.03	0.02	NA	73.83	14.68
	3/8/90	4.2	0.26	0.018	0.088	0.039	480		14.38
	6/7/90	2.0	0.15	0.0069	0.014	0.017	460		14.27

LEGEND

Total petroleum hydrocarbons as gasoline parts per million TPHG

ppm

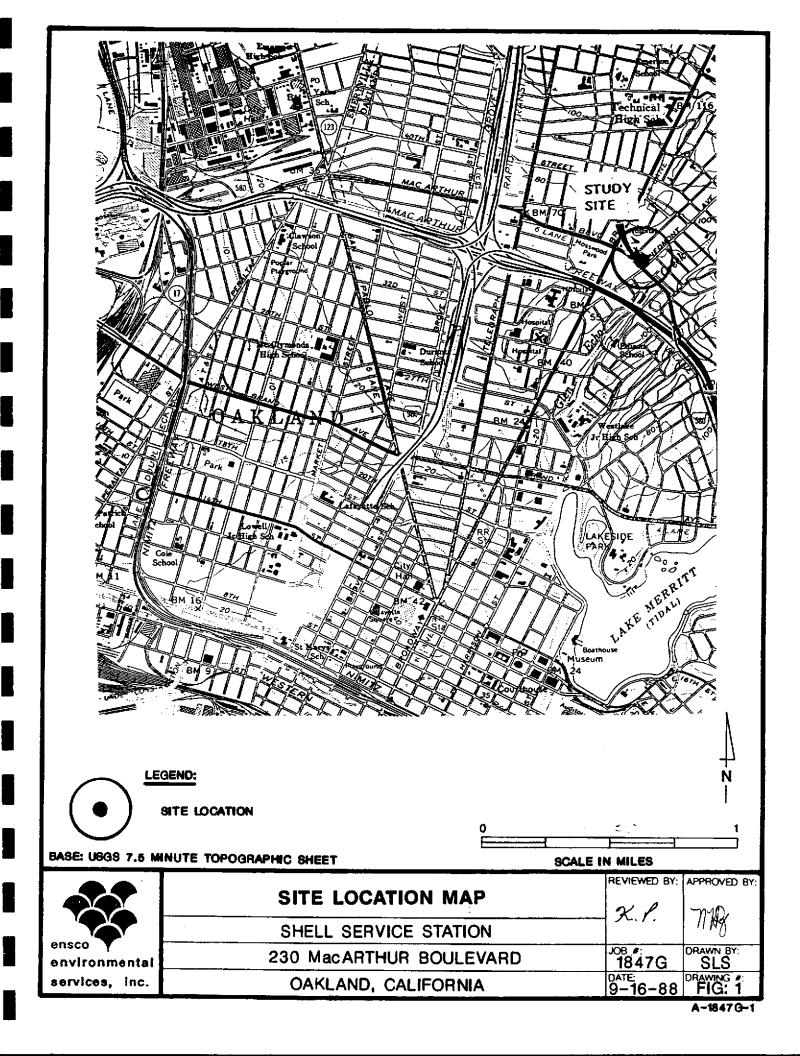
ΝD None detected at or above detection limit method

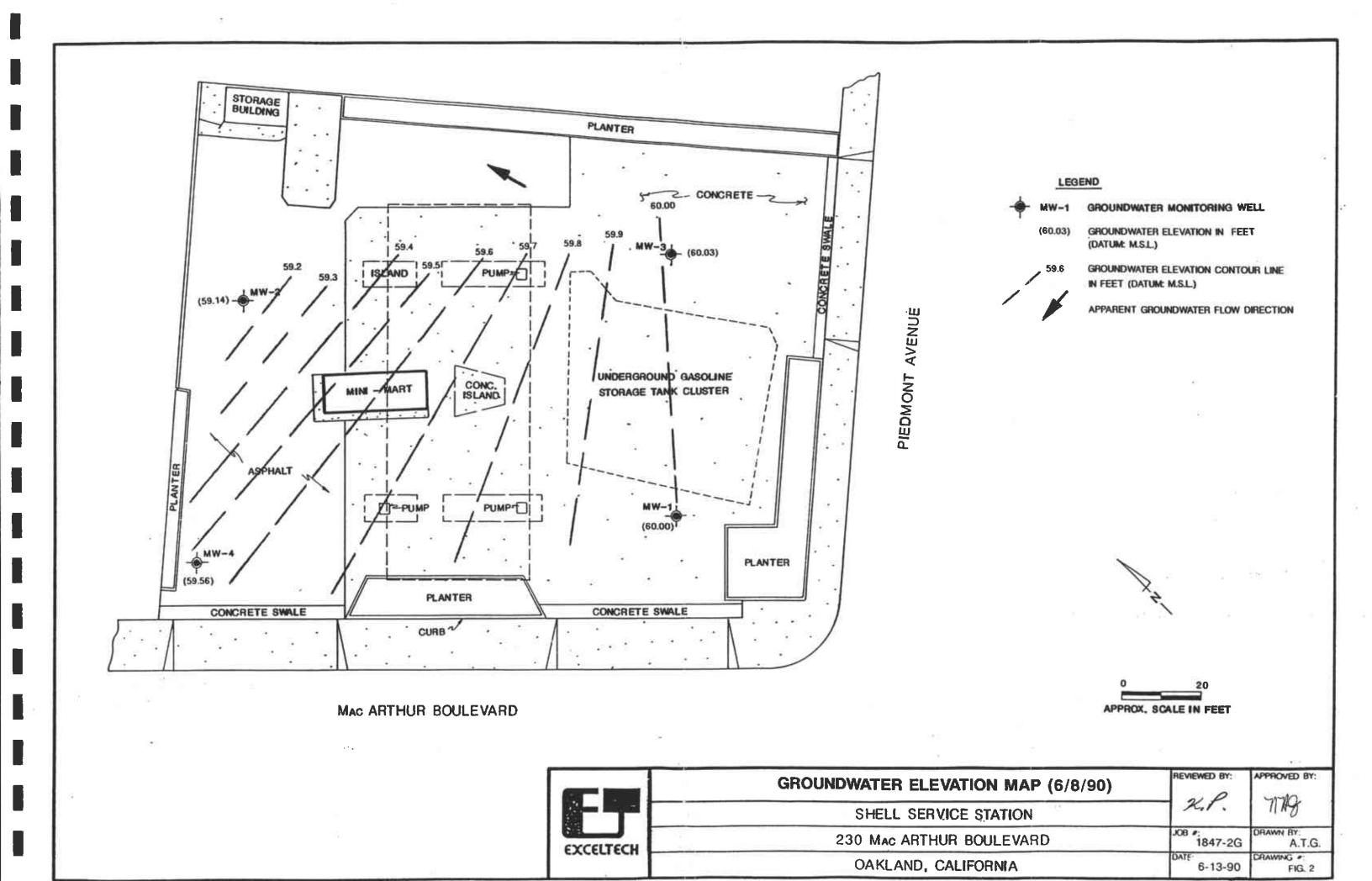
Below reporting limit Not Analyzed BRL

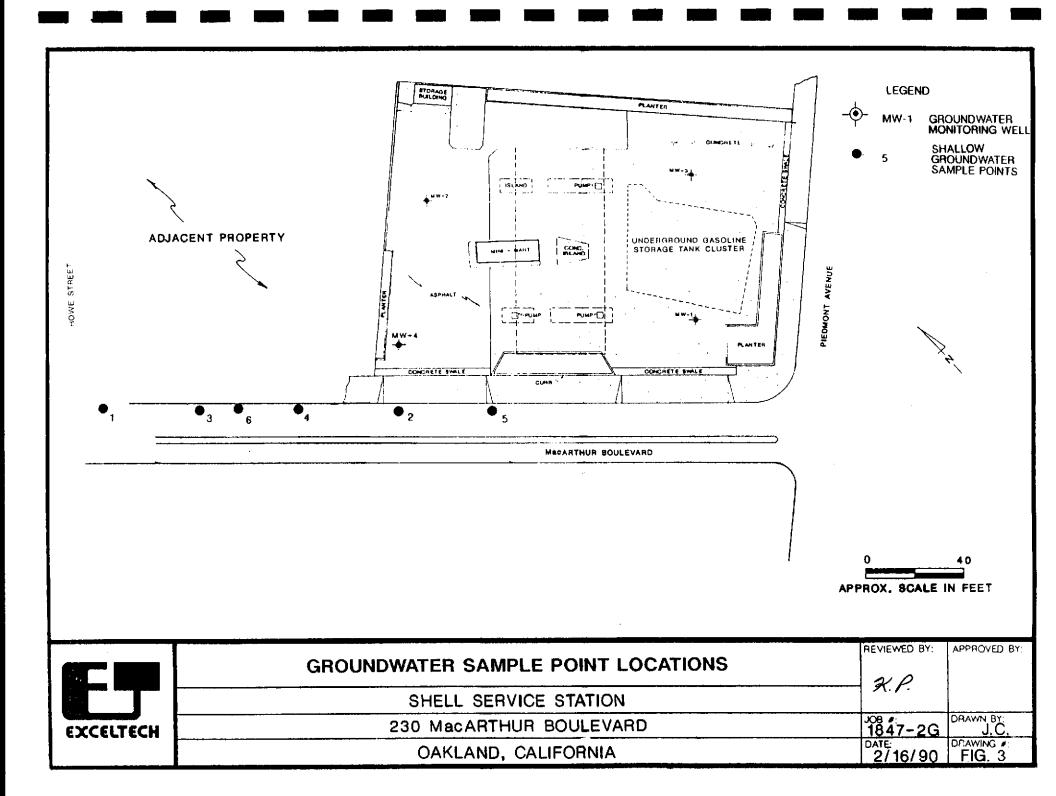
NΑ

Total dissolved solids TDS

Note: See lab reports for detection limits and reporting limits







APPENDIX A SHALLOW GROUNDWATER INVESTIGATION REPORT

(408)736-1380 FAX (408)736-0887

June 8, 1990

D 1 3 9 0 9 E X . D O C

Exceltech ATTN: Kay Pannell

41674 Christy Street

Fremont, California 94538

Subject: Water sampling and analysis at City of Oakland property, 230 Macarthur Boulevard, Oakland, California

Dear Ms. Pannell:

Attached is the analytical report for the six water samples that were recovered from the subject facility on 5-19-90.

The water samples were taken from the locations shown on the attached map at 18 to 19 feet below grade.

The water samples were taken by driving a partially perforated steel pipe to the surface of the aquifer. Water samples were taken by minature Teflon bailer. The pipe was removed and the remaining holes were grouted with a concrete slurry. All samples were analyzed in the field using the purge and trap method. In this process, the sample is first purged and then passed through a Perkin-Elmer model 3920B gas chromatgraph equipped with a Flame Ionization Detector (FID).

If you have any questions regarding this report, please feel free to contact us at your convenience.

 ${ t Sincerely}_{m{ extsf{x}}}$

Kip Porter



(408)736-1380 FAX (408)736-0887

June 8, 1990

D 1 3 9 0 9 E X . D O C

Exceltech
ATTN: Kay Pannell
41674 Christy Street
Fremont, California 94538

Subject: Water sampling and analysis at City of Oakland property, 230 Macarthur Boulevard, Oakland, California

REPORT OF ANALYTICAL RESULTS

Sample Description: Water sample, 19' below grade

Sample ID: Probe 1 CECI ID: 003942
Date Sampled: 5-19-90 CECI Project #: 909
Date Analyzed: 5-19-90 (ONSITE)

Method	Concentration	mg/Kg (PPM)
######################################	mg/kg	Det. Limit
EPA 8015/8020 PURGE & TRAP		
Gasoline	ND	0.05
Benzene	ND	0.0005
Toluene	ND	0.0005
Ethyl Benzene	ND	0.0005
Xylenes	ND	0.0005



(408)736-1380 FAX (408)736-0887

June 8, 1990

D13 909RX.DOC

Exceltech

ATTN: Kay Pannell 41674 Christy Street

Fremont, California 94538

Subject: Water sampling and analysis at City of Oakland property, 230 Macarthur Boulevard, Oakland, California

REPORT OF ANALYTICAL RESULTS

Sample Description: Water sample 19' Below Grade

Sample ID: Probe 2

CECI ID: 003943

CECI Project #: 909

Date Sampled: 5-19-90
Date Analyzed: 5-19-90 (ONSITE)

Method	Concentration	mg/Kg (PPM)
	mg/kg	Det. Limit
EPA 8015/8020 PURGE & TRAP		
Gasoline	25	0.05
Benzene	0.28	0.0005
Toluene	0.29	0.0005
Ethyl Benzene	0.16	0.0005
Xylenes	0.47	0.0005



(408)736-1380 FAX (408)736-0887

June 8, 1990

D 1 3 9 0 9 R X . D O C

Exceltech

ATTN: Kay Pannell 41674 Christy Street

Fremont, California 94538

Subject: Water sampling and analysis at City of Oakland property, 230 Macarthur Boulevard, Oakland, California

REPORT OF ANALYTICAL RESULTS

Sample Description: Water sample 18' Below Grade

Sample ID: Probe 3

CECI ID: 003944

Date Sampled: 5-19-90

CECI Project #: 909

Date Analyzed: 5-19-90 (ONSITE)

Method	Concentration	mg/Kg (PPM)
	mg/kg	Det. Limit
EPA 8015/8020 PURGE & TRAP		
Gasoline	ND	0.05
Benzene	ND	0.0005
Toluene	ND	0.0005
Ethyl Benzene	ND	0.0005
Xylenes	ND	0.0005

Page 4



(408)736-1380 FAX (408)736-0887

June 8, 1990

D13 909EX.DOC

Exceltech

ATTN: Kay Pannell 41674 Christy Street

Fremont, California 94538

Subject: Water sampling and analysis at City of Oakland property, 230 Macarthur Boulevard, Oakland, California

REPORT OF ANALYTICAL RESULTS Cal DHS Certification # 252

Sample Description: Water sample 18' Below Grade

Sample ID: Probe 4

CECI ID: 003945

Date Sampled: 5-19-90

CECI Project #: 909

Date Analyzed: 5-19-90 (ONSITE)

Method	Concentration	mg/Kg (PPM)
	mg/kg	Det. Limit
EPA 8015/8020 PURGE & TRAP		
Gasoline	ND	0.05
- -		0.0005
Benzene	0.005	0.0005
Toluene	ND	0.0005
Ethyl Benzene	0.002	0.0005
Xylenes	ND	0.0005



(408)736-1380 FAX (408)736-0887

June 8, 1990

D13 909EX.DOC

Exceltech

ATTN: Kay Pannell 41674 Christy Street Fremont, California 94538

Subject: Water sampling and analysis at City of Oakland property, 230 Macarthur Boulevard, Oakland, California

REPORT OF ANALYTICAL RESULTS

Sample Description: Water sample 18' Below Grade

Sample ID: Probe 5
Date Sampled: 5-19-90

CECI ID: 003946

CECI Project #: 909

Date Analyzed: 5-19-90 (ONSITE)

Method	Concentration	mg/Kg (PPM)
	mg/kg	Det. Limit
EPA 8015/8020 PURGE & TRAP		
Gasoline	ND	0.05
Benzene	0.001	0.0005
Toluene	0.002	0.0005
Ethyl Benzene	0.001	0.0005
Xylenes	0.004	0.0005



(408)736-1380 FAX (408)736-0887

June 8, 1990

D13 909EX.DOC

Exceltech

ATTN: Kay Pannell 41674 Christy Street

Fremont, California 94538

Subject: Water sampling and analysis at City of Oakland property, 230 Macarthur Boulevard, Oakland, California

REPORT OF ANALYTICAL RESULTS

Sample Description: Water sample 18' below grade

Sample ID: Probe 6
Date Sampled: 5-19-90

CECI ID: 003947

CECI Project #: 909

Date Analyzed: 5-19-90 (ONSITE)

Concentration	mg/Kg (PPM)
mg/kg	Det. Limit
31	0.05
0.43	0.0005
0.60	0.0005
0.24	0.0005
1.4	0.0005
	mg/kg 31 0.43 0.60 0.24

APPENDIX B GROUNDWATER SAMPLING PROTOCOL



Groundwater Sampling Protocol

GROUNDWATER SAMPLING PROTOCOL

Sampling of groundwater is performed by Exceltech, Inc. sampling technicians. Summarized field sampling procedures are as follows:

- 1. Measurements of liquid surface in the well and depth of monitoring well.
- 2. Field check for presence of floating product.
- 3. Purge well prior to collecting samples.
- 4. Monitor groundwater for temperature, pH, and specific conductance during purging.
- 5. Collect samples using Environmental Protection Agency (EPA) approved sample collection devices, i.e., teflon or stainless steel bailers or pumps.
- 6. Transfer samples into laboratory-supplied EPA-approved containers.
- 7. Label samples and log onto chain-of-custody form.
- 8. Store samples in a chilled ice chest for shipment to a state-certified analytical laboratory.

EXCELTECH, INC.
Groundwater Sampling Protocol
Latest Revision: March 28, 1990

GROUNDWATER SAMPLING PROCEDURES

Equipment Cleaning

All water samples are placed in precleaned laboratory-supplied bottles. Sample bottles and caps remain sealed until actual usage at the site. All equipment which comes in contact with the well or groundwater is thoroughly cleaned with a trisodium phosphate (TSP) solution and rinsed with deionized or distilled water before use at the site. This cleaning procedure is followed between each well sampled. Wells are sampled in approximate order of increasing contamination. If a teflon cord is used, the cord is cleaned. If a nylon or cotton cord is used, a new cord is used in each well. All equipment blanks are collected prior to sampling. The blanks are analyzed periodically to ensure proper cleaning.

Water Level Measurements

Depth to groundwater is measured in each well using a sealed sampling tape or scaled electric sounder prior to purging or sampling. If the well is known or suspected of containing free-phase petroleum hydrocarbons, an optical interface probe is used to measure the hydrocarbon thickness and groundwater level. Measurements are collected and recorded to the nearest 0.01 foot.

Bailer Sheen Check

If no measurable free-phase petroleum hydrocarbons are detected, a clear acrylic bailer is used to determine the presence of a sheen. Any observed film as well as odor and color of the water is recorded.

Groundwater Sampling

Prior to groundwater sampling, each well is purged of "standing" groundwater. Either a bailer, hand pump, or submersible pump is used to purge the well. The amount of purging is dependent on the well yield. In a high yield formation, samples will be collected when normal field measurement, including temperature, pH, and specific conductance stabilize, provided a minimum of three well-casing volumes of water have been removed. Field measurements will be taken after purging each well volume. In low yield formations, the well is purged such that the "standing" water is removed and the well is allowed to recharge. (Normal field measurements will be periodically recorded during the purging process.) In

EXCELTECH, INC.
Groundwater Sampling Protocol
Latest Revision: March 28, 1990

situations where recovery to 80% of static water level is estimated, or observed to exceed a two hour duration, a sample will be collected when sufficient volume is available for a sample for each parameter. At no time will the well be purged dry so that the recharge rate causes the formation water to cascade into the well.

In wells where free-phase hydrocarbons are detected, the free-phase portion will be bailed from the well and the volume removed recorded. A groundwater sample will be collected if bailing reduces the amount of free-phase hydrocarbons to the point where they are not present in the well. Well sampling will be conducted using one of the aforementioned methods depending on the formation yield. However, if free-phase hydrocarbons persist throughout bailing, then a groundwater samples will not be collected.

Groundwater sample containers are labeled with a unique sample number, location, product name and number, and date of collection. All samples are logged into a chain-of-custody form and placed in a chilled ice chest for shipment to a laboratory certified by the State of California Department of Health Services.

EXCELTECH, INC.
Groundwater Sampling Protocol
Latest Revision: March 28, 1990

APPENDIX C LABORATORY ANALYTICAL REPORT



SEQUOIA ANALYTICAL

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

Exceltech 41674 Christy Street Fremont, CA 94538 Attention: Kay Paneil

Project: 1847.2G SHELL

Enclosed are the results from 4 water samples received at Sequoia Analytical on June 8,1990. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
006-1098 A	Water, MW-1	6/7/90	EPA 5030/8015/8020
006-1098 C	Water, MW-1	6/7/90	Total Dissolved Solids
006-1099 A	Water, MW-2	6/7/90	EPA 5030/8015/8020
006-1099 C	Water, MW-2	6/7/90	Total Dissolved Solids
006-1100 A	Water, MW-3	6/7/90	EPA 5030/8015/8020
006-1100 C	Water, MW-3	6/7/90	Total Dissolved Solids
006-1101 A	Water, MW-4	6/7/90	EPA 5030/8015/8020
006-1101 C	Water, MW-4	6/7/90	Total Dissolved Solids
006-1099 C 006-1100 A 006-1100 C 006-1101 A	Water, MW-2 Water, MW-3 Water, MW-4	6/7/90 6/7/90 6/7/90 6/7/90	Total Dissolved Solids EPA 5030/8015/8020 Total Dissolved Solids EPA 5030/8015/8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Vickie Tague⁽⁾ Project Manager



Exceltech 41674 Christy Street

Client Project ID:

1847.2G SHELL

Sampled:

Jun 7, 1990 Jun 8, 1990

Fremont, CA 94538

Matrix Descript: Analysis Method:

Water EPA 5030/8015/8020 Received: Analyzed:

Jun 11, 1990

Attention: Kay Panell

First Sample #:

006-1098 Α Reported:

Jun 18, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons μg/L (ppb)	Benzene µg/L (ppb)	Toluene μg/L (ppb)	Ethyl Benzene μg/L (ppb)	Xylenes μg/L (ppb)
006-1098 A	MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
006-1099 A	MW-2	N.D.	N.D.	N.D.	N.D.	N.D.
006-1100 A	мw-з	N.D.	N.D.	N.D.	N.D.	N.D.
006-1101 A	MW-4	2,000	150	6.9	14	17

Detection Limits:	30	0.30	0.30	0.30	0.30	

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague) Project Manager



Exceltech 41674 Christy Street Fremont, CA 94538 Attention: Kay Panell

Client Project ID: Sample Descript: Analysis for:

First Sample #:

1847.2G SHELL Water

Total Dissolved Solids 006-1098 C

Jun 7, 1990 Sampled: Received: Jun 8, 1990 Extracted: Jun 14, 1990

Analyzed: Jun 14, 1990 Reported: Jun 18, 1990

LABORATORY ANALYSIS FOR:

Total Dissolved Solids

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	
006-1098 C	MW-1	1.0	430	
006-1099 C	MW-2	1.0	380	
006-1100 C	мw-з	1.0	490	
006-1101 C	MW-4	1.0	460	

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague Project Manager

	PROJECT PROJECT NAME 1847-26 Shell MacArther		PRO	JECT NAME	CHAIN OF CU					AFE BOCK 16
			// MacArther	230 Mac Actor Oakland, Ca.	E A	TEST REO			I WIC.≠	
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	NO.	DATE	TIME	D	ESCRIPTION OF SAMPLE					
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