ALCO
HAZMAT
94 SEP -2 AM 9:39

PORT OF OAKLAND

August 29, 1994

Q for D. Sheeks:
(1) gradient (tidally influenced ?)
(2) FP issue ?

Ms. Jennifer Eberley
Hazardous Materials Division
Department of Environmental Health
Alameda County Health Services Agency
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

SUBJECT: Report of Quarterly Groundwater Monitoring *Keep on Trucking*, 370 8th Avenue, Oakland, CA 94606

Dear Ms. Eberley:

Enclosed, you will find the Report of Quarterly Groundwater Monitoring at Keep on Trucking, 370 8th Avenue, Oakland, California. Through a clerical error, the Port sent you the fourth quaterly monitoring report on August 23, 1994 without sending you the previous monitoring report. The enclosed report is the third groundwater sampling report that we previously neglected to transmit.

The well installation and first quarterly monitoring report was sent to your office on December 9, 1993. The second quarterly groundwater monitoring report was sent to your office on March 3, 1994. The forth groundwater monitoring report was transmitted to you on August 23, 1994 and the third monitoring report is enclosed.

We are sorry for the confusion or for any inconvenience the delay in sending this report may have caused. If you have any questions regarding this letter, please contact me at (510) 272-1184 or Doug Sheeks of Uribe and Associates at (510)-832-2233.

Sincerely,

Jon Amdur
Jon Amdur
Environmental Scientist

cc\ w report:

- Mr. Richard Padovani, Terminal Manager, Keep on Trucking Co., Inc., 370 8th Avenue, Oakland, CA 94606
- Mr. Michel Delehunt, Crosby, Heafy, Roach and May, 1999 Harrison Street, Oakland, CA 94612
- ~~Mr. Rich Hiett~~ SFRWQCB, 2101 Webster Street, 5th Floor, Oakland, CA 94612
- Ms. Michele Heffes (Legal Department) Port of Oak.
- Mr. Jeff Rubin
- K Graves
- Jeriann Alexander SCI consultant, J. Redding

530 Water Street ■ Jack London's Waterfront ■ P.O. Box 2064 ■ Oakland, California 94604-2064
Telephone (510) 272-1100 ■ Fax (510) 272-1172 ■ Cable address, PORTOFOAK, Oakland

ALCO
HAZMAT
94 AUG 25 PM 3:21

PORT OF OAKLAND

August 23, 1994

for 4/94 Spleen

BC

Ms. Jennifer Eberley
Hazardous Materials Division
Department of Environmental Health
Alameda County Health Services Agency
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

SUBJECT: Report of Quarterly Groundwater Monitoring *Keep on Trucking*, 370 8th Avenue, Oakland, CA 94606

Dear Ms. Eberley:

Enclosed, you will find the Report of Quarterly Groundwater Monitoring at Keep on Trucking, 370 8th Avenue, Oakland, California. The wells were installed in August and September 1993 following the remediation of the diesel contaminated soils from the vicinity of the leaking underground pipe. The report on the well installation was transmitted to you on 9 December 1993. The first Quarterly Groundwater Monitoring Report was transmitted to your office on March 3, 1994.

The December report discussed that free phase product was encountered in well MW-4. Continued bailing of the well removed the product which indicated that the fuel was in an isolated pocket. The March 3, 1994 Quarterly Monitoring Report noted that only a slight sheen (unmeasurable thickness) was present in well MW-4. During the recent sampling, free phase product was again removed from MW-4. The Port will continue to bail the well on a regular basis as an interim measure

If you have any questions regarding this letter, please contact me at (510) 272-1184.

Sincerely,

Jon Amdur
Environmental Scientist

cc\ w report.

Mr. Richard Padovani, Terminal Manager, Keep on Trucking Co., Inc., 370 8th Avenue, Oakland, CA 94606
Mr. Michel Delehunt, Crosby, Healy, Roach and May, 1999 Harrison Street, Oakland, CA 94612
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PORT OF OAKLAND

August 29, 1994

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Department of Environmental Health
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- Ms. Michele Heffes (Legal Department) Port of Oak
- Mr. Jeff Rubin
- K Graves Jerom Alexander SCI
- Consultant, VJ Reddy

cc\ w\o report

Mr. Gil Jensen, Alameda County District Attorneys Office of Consumer and Environmental Affairs, 7677 Oakport Dr., Suite 400, Oakland, CA 94621

Mr. James McGrath (Environmental Department)
Mr. Neil Werner (Environmental Department)

URIBE & ASSOCIATES
2930 LAKESHORE AVENUE
SUITE TWO HUNDRED
OAKLAND, CALIFORNIA 94610
510 - 832 - 2233
FAX 510 - 832 - 2237

ALCO
HAZMAT
94 SEP -2 AM 9:39

ENVIRONMENTAL CONSULTING SERVICES

August 26, 1994

Mr. Jon Amdur
Associate Environmental Scientist
Port of Oakland
530 Water Street
Oakland, California 94607

Subject: **Quarterly Groundwater Monitoring Report**
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California
U&A Project No. 96-203

Dear Mr. Amdur:

Uribe & Associates (U&A) is pleased to provide the Port of Oakland (Port) this report documenting the results of quarterly groundwater monitoring conducted on March 31 and April 4, 1994, at the subject site (Figure 1). The monitoring included collection of depth-to-groundwater measurements (on March 31) and groundwater samples (on April 4) from wells MW-1, MW-2, MW-3, and MW-4, located on site (Figure 2), and groundwater samples from three of the wells. Approximately 6 to 8 inches of floating liquid hydrocarbons (FLH) were observed in MW-4 on March 31, 1994. Approximately 6 inches of floating liquid hydrocarbons (FLH) were observed in MW-4 on April 4, 1994.

This is the third quarter of monitoring of the wells following their installation on August 26, 1993 (MW-1, MW-2, and MW-3) and September 8, 1993 (MW-4) and development between September 14 and 20, 1993. The wells surround the area of a former excavation of a 1,000-gallon diesel underground storage tank (UST) and underground piping associated with a former aboveground storage tank (Figure 2). Well MW-4 is located within the northern corner of the site's Building H-213. Excavation and removal of the UST was completed on April 27, 1993. The piping and nearby areas were excavated from April 28 through May 5, 1993.

This report is based, in part, on information obtained by U&A from the Port, and is subject to modification as newly acquired information may warrant.

Printed on Recycled Paper

U&A Groundwater Monitoring

Water-Level Measurements and Bailing of FLH

On March 31, 1994, U&A personnel collected measurements of the depths to groundwater from the four wells, prior to purging of groundwater and/or bailing of FLH. All depth-to-groundwater measurements were made to the nearest 0.01 foot, referenced to the surveyed top-of-casing (TOC) elevations, and conducted according to the U&A standard operating procedures (SOP) included as Attachment 1. The depths to groundwater in the four wells ranged from 4.09 to 5.01 feet below TOC. Water-level measurements collected to date bare summarized in Table 1. Figure 3 is a potentiometric surface map of the shallow water-bearing zone for March 31, 1994, based on the data summarized in Table 1. The groundwater elevation in MW-4 was corrected for the presence of FLH.

During the measurements, approximately 6 to 8 inches of FLH were observed in MW-4. No FLH were observed in any of the other three wells. In addition, the groundwater temperature averaged approximately 66 degrees Fahrenheit and the pH averaged approximately 7. The groundwater data are summarized in the U&A Monitoring Well Sampling Forms included as Attachment 2. The FLH were bailed by hand from MW-4 using a disposable bailer. All purgewater, and bailed FLH, was stored temporarily on site in 55-gallon drums pending proper disposal. The data summarized in Table 2 serve as indications of the amounts of FLH bailed to date from MW-4.

Groundwater Sampling and Analysis

Groundwater samples were collected from the four wells by U&A personnel on April 4, 1994. The samples were collected according to the U&A SOP included in Attachment 1 and were submitted under chain-of-custody to D&M Laboratories, of Petaluma, California, a state-certified analytical laboratory. The samples were analyzed for the following constituents:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020.
- Total petroleum hydrocarbons (TPH) by modified EPA Method 8015.

The analyses indicated that concentrations of BTEX were below the method detection limit of 0.5 µg/l in the samples collected from MW-1, MW-2, and MW-3. For TPH, the concentrations ranged from below the method detection limit of 50 µg/l to 410,000 µg/l in the samples collected from all four wells. For the sample from MW-4, BTEX ranged from 20 µg/l (toluene) to 310 µg/l (total xylenes). Benzene was indicated at 140 µg/l. The analytical results to date are summarized in Table 3. The laboratory analytical reports and chain-of-custody form are included as Attachment 3. Figure 4 is a distribution map of TPH and benzene in groundwater for April 4, 1994, based on the data summarized in Table 3.

Remarks and Signature

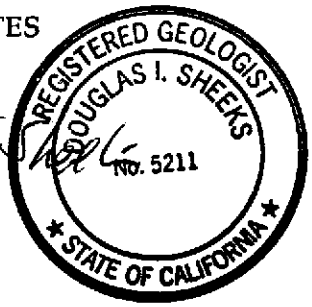
This report is based on available information and was prepared in accordance with currently accepted geologic, hydrogeologic, and engineering practices. No other warranty is implied or intended. This report has been prepared for the sole use of the Port of Oakland and applies to the subject site only. Use of this report by third parties shall be at their sole risk.

The work reported herein was conducted under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide the Port of Oakland with geologic, engineering, and environmental consulting services, and trust this report meets your needs. If you have any questions or concerns, please call us at (510) 832-2233.

Sincerely,

URIBE & ASSOCIATES



Douglas I. Sheeks
Senior Geologist
CRG No. 5211

Attachments

Figures:

1 Site Location Map
2 Site Plan Map
3 Potentiometric Surface Map: March 31, 1994
4 Distribution Map of TPH and Benzene in Groundwater: April 4, 1994

Tables:

1 Groundwater Level Data
2 Summary of Fluids Bailed from Well MW-4
3 Analytical Results: Groundwater

Attachments:

1 U&A Standard Operating Procedures
2 U&A Monitoring Well Sampling Forms
3 Laboratory Analytical Reports and Chain-of-Custody Form

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ENVIRONMENTAL CONSULTING SERVICES

July 18, 1994

Mr. Jon Amdur
Associate Environmental Scientist
Port of Oakland
530 Water Street
Oakland, California 94607

Subject: **Quarterly Groundwater Monitoring Report**
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California
U&A Project No. 96-203

Dear Mr. Amdur:

Uribe & Associates (U&A) is pleased to provide the Port of Oakland (Port) this report documenting the results of quarterly groundwater monitoring conducted on March 31 and April 4, 1994, at the subject site (Figure 1). The monitoring included collection of depth-to-groundwater measurements (on March 31) and groundwater samples (on April 4) from wells MW-1, MW-2, MW-3, and MW-4 located on site (Figure 2). Approximately 6 to 8 inches of floating liquid hydrocarbons (FLH) were observed in MW-4 on March 31, 1994. Approximately 6 inches of FLH were observed in MW-4 on April 4, 1994.

This is the third quarter of monitoring of the wells following their installation on August 26, 1993 (MW-1, MW-2, and MW-3) and September 8, 1993 (MW-4) and development between September 14 and 20, 1993. The wells surround the area of a former excavation of a 1,000-gallon diesel underground storage tank (UST) and underground piping associated with a former aboveground storage tank (Figure 2). Well MW-4 is located inside the northern corner of the site's Building H-213. Excavation and removal of the UST was completed on April 27, 1993. The piping and nearby areas were excavated from April 28 through May 5, 1993.

This report is based, in part, on information obtained by U&A from the Port, and is subject to modification as newly acquired information may warrant.

Printed on Recycled Paper

U&A Groundwater Monitoring

Water-Level Measurements, Data, and Bailing of FLH

On March 31, 1994, U&A personnel collected measurements of the depths to groundwater from the four wells, prior to purging of groundwater and/or bailing of FLH. All depth-to-groundwater measurements were made to the nearest 0.01 foot, referenced to the surveyed top-of-casing (TOC) elevations, and conducted according to the U&A standard operating procedures (SOP) included as Attachment 1. The depths to groundwater in the four wells ranged from 4.09 to 5.01 feet below TOC. Water-level measurements collected to date are summarized in Table 1. Figure 3 is a potentiometric surface map of the shallow water-bearing zone for March 31, 1994, based on the data summarized in Table 1. The groundwater elevation in MW-4 was corrected for the presence of FLH.

During the measurements, approximately 6 to 8 inches of FLH were observed in MW-4. No FLH were observed in any of the other three wells. In addition, the groundwater temperature averaged approximately 66 degrees Fahrenheit and the pH averaged approximately 7. The groundwater data are summarized in the U&A Monitoring Well Sampling Forms included as Attachment 2. The FLH were bailed by hand from MW-4 using a disposable bailer. All purgewater, and bailed FLH, was stored temporarily on site in 55-gallon drums pending proper disposal. The data summarized in Table 2 serve as indications of the amounts of FLH bailed to date from MW-4.

Groundwater Sampling and Analysis

Groundwater samples were collected from the four wells by U&A personnel on April 4, 1994. The samples were collected according to the U&A SOP included in Attachment 1 and were submitted under chain-of-custody to D&M Laboratories, of Petaluma, California, a state-certified analytical laboratory. The samples were analyzed for the following constituents:

- Total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D) by modified EPA Method 8015.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020.

The analyses indicated that TPH-G and BTEX were below the method detection limits of 50 µg/l and 0.5 µg/l, respectively, in the samples collected from MW-1, MW-2, and MW-3. For the sample from MW-4, TPH-G was 6, 200 µg/l and BTEX ranged from 20 ug/l (toluene) to 310 ug/l (total xylenes). Benzene was indicated at 140 ug/l. The samples from all four wells indicated diesel, ranging from 510 µg/l (MW-1) to 410,000 µg/l (MW-4). The analytical results to date are summarized in Table 3. The laboratory analytical reports and chain-of-custody form are included as Attachment 3. Figure 4 is a distribution map of TPH-G, TPH-D, and benzene in groundwater for April 4, 1994, based on the data summarized in Table 3.

Remarks and Signatures

This report is based on available information and was prepared in accordance with currently accepted geologic, hydrogeologic, and engineering practices. No other warranty is implied or intended. This report has been prepared for the sole use of the Port of Oakland and applies to the subject site only. Use of this report by third parties shall be at their sole risk.

The work reported herein was conducted under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide the Port of Oakland with geologic, engineering, and environmental consulting services, and trust this report meets your needs. If you have any questions or concerns, please call us at (510) 832-2233.

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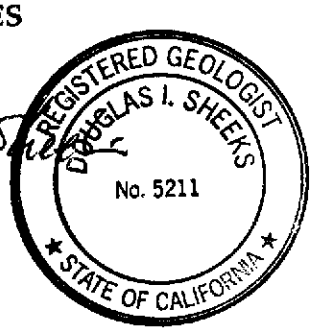
URIBE & ASSOCIATES



Douglas I. Sheeks
Senior Geologist
CRG No. 5211

Attachments

Figures:

Tables:

Attachments:

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Figures

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Figures

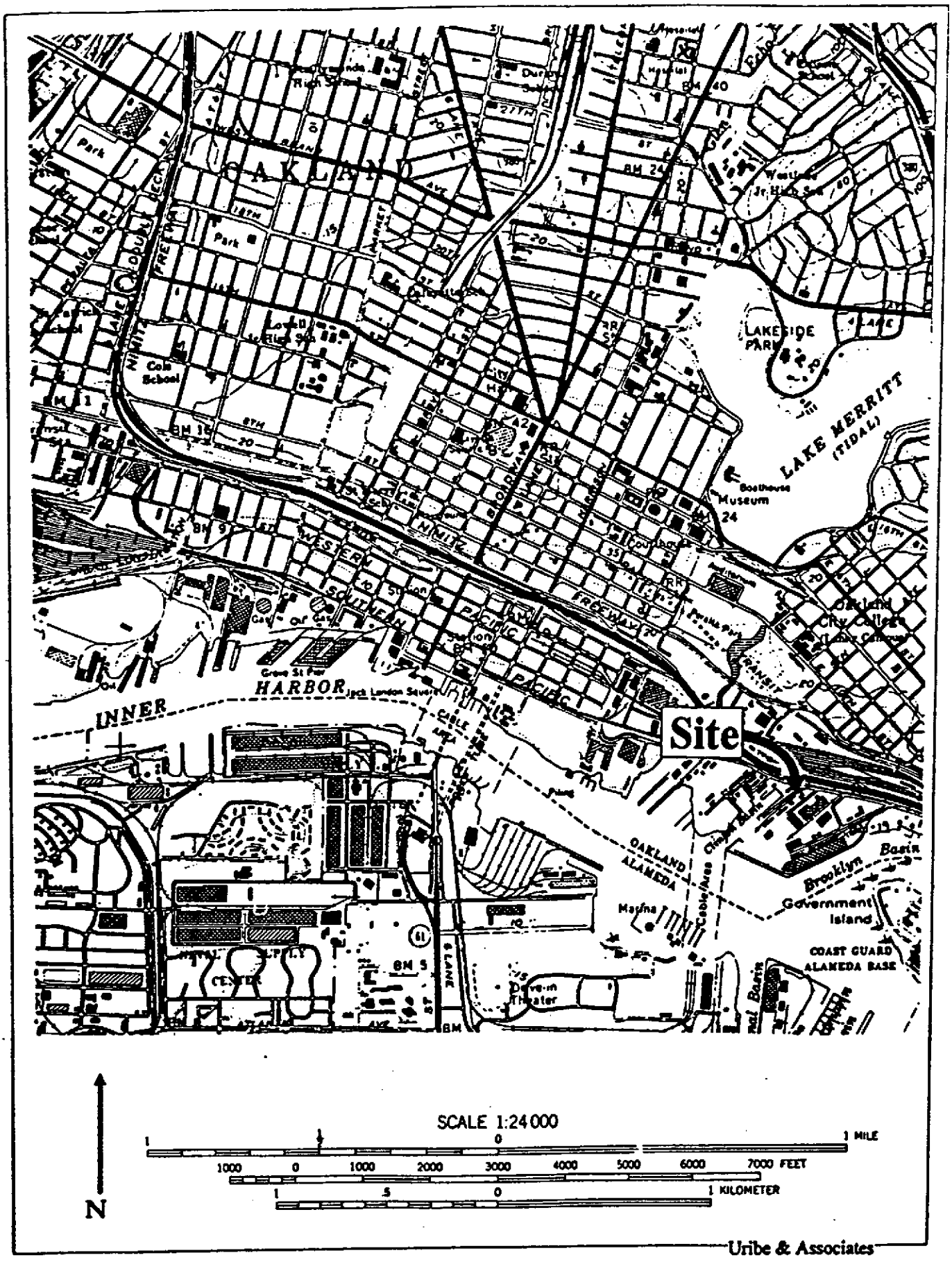
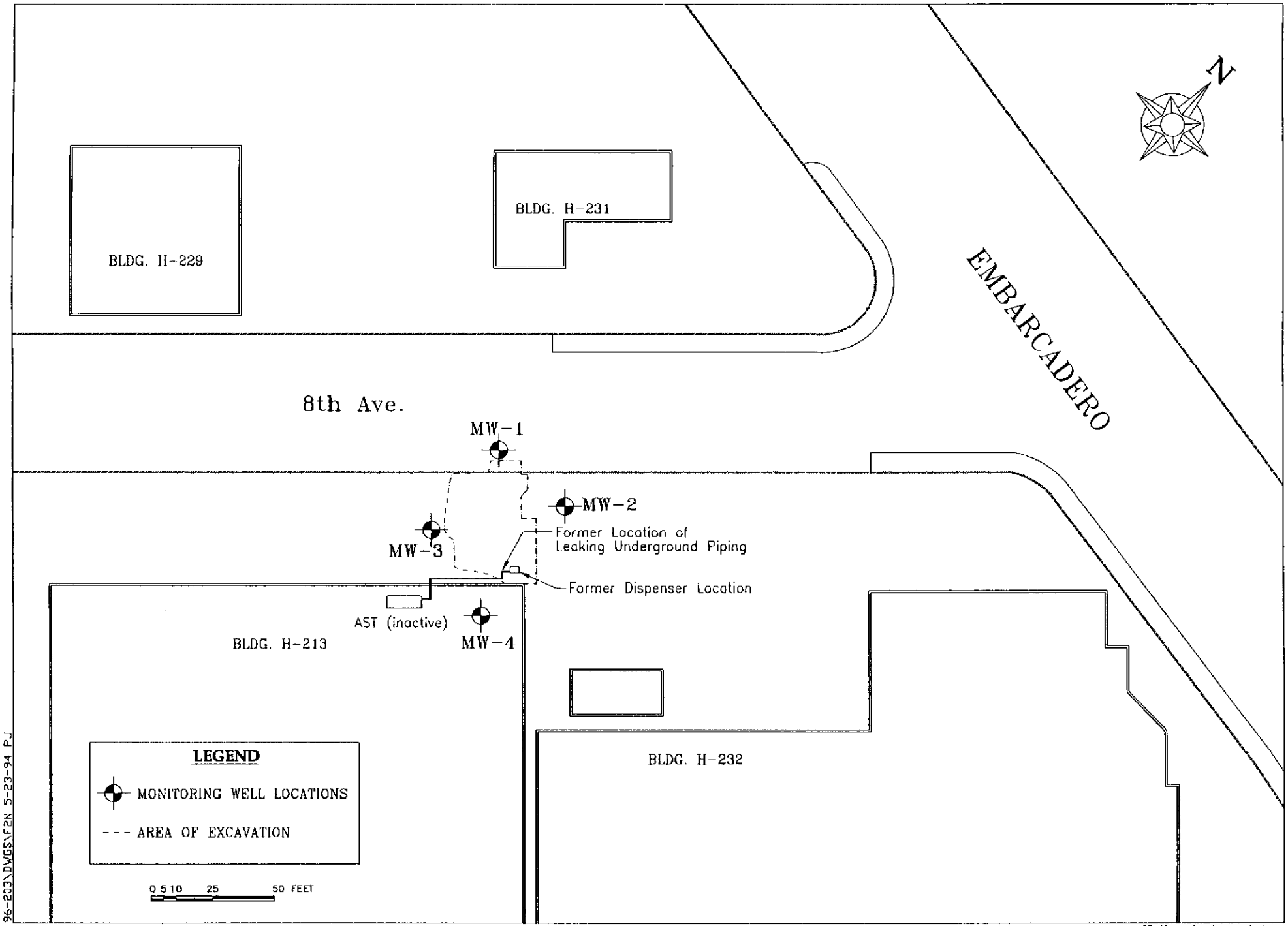


Figure 1: Site Location Map



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Uribe & Associates

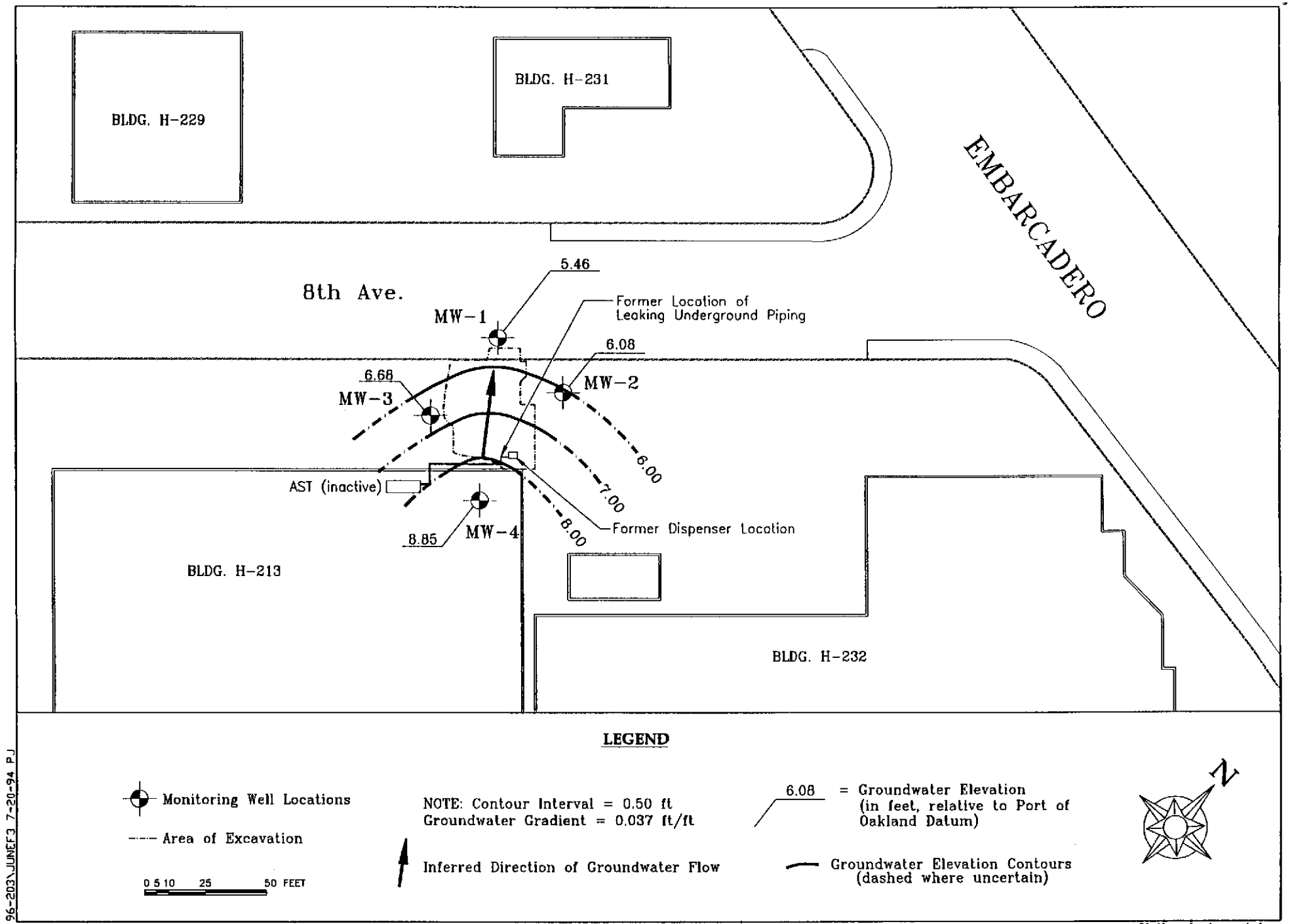
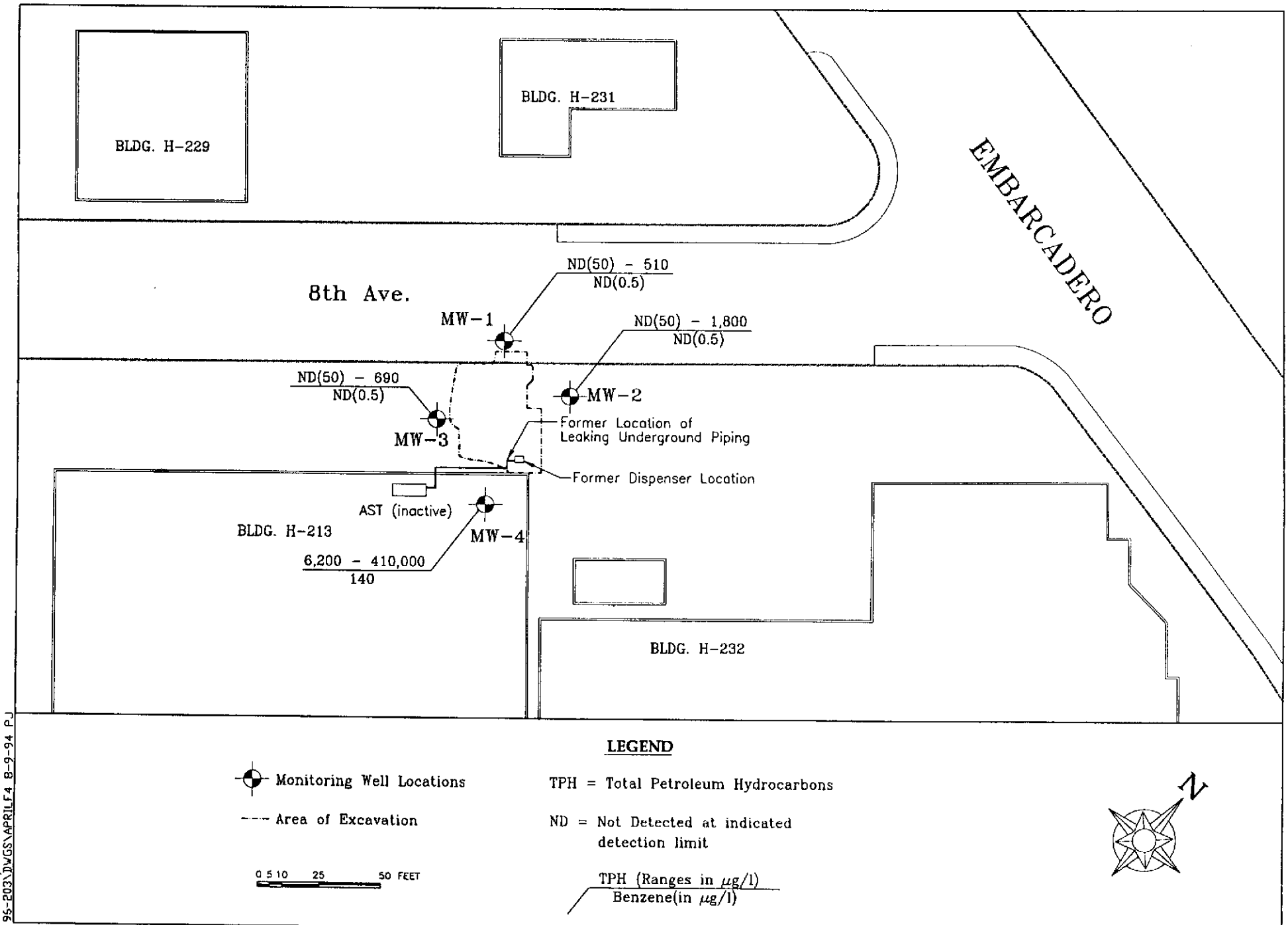


Figure 3: Potentiometric Surface Map: June 2, 1994



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Uribe & Associates

Figure 4: Distribution Map of TPH and Benzene in Groundwater: April 4, 1994

Table 1

Groundwater Level Data
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California
(All Measurements in Feet)

Well / Date	Reference Elevation	Depth to Groundwater	Depth to FLH	Groundwater Elevation
MW-1				
09/14/93	10.28	5.25	nm	5.03
09/20/93		5.20	nm	5.08
01/12/94		5.15	nm	5.13
03/31/94		4.09	nm	6.19
MW-2				
09/14/93	10.69	5.10	nm	5.59
09/20/93		4.40	nm	6.29
01/12/94		4.75	nm	5.94
03/31/94		5.01	nm	5.68
MW-3				
09/14/93	10.54	13.80	nm	-3.26
09/20/93		15.20	nm	-4.66
01/12/94		5.70	nm	4.84
03/31/94		4.23	nm	6.31

Notes on following page

Table 1 Continued

Groundwater Level Data
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California
(All Measurements in Feet)

Well / Date	Reference Elevation	Depth to Groundwater	Depth to FLH	Groundwater Elevation
MW-4				
09/14/93	12.33	5.30	4.97	7.29
09/20/93		5.80	5.13	7.07
01/12/94		4.10	sheen	8.23
03/31/94		4.20	3.62	8.59

Notes:

Reference Elevations and Groundwater Elevations are relative to mean lower low water (3.2 feet below mean sea level; "Port of Oakland Datum").
FLH = Floating liquid hydrocarbons (assumed to be diesel)
Depth to Groundwater and FLH measured from top of well casing.
nm = Not measured/not observed
sheen = less than 0.01 foot
Wells MW-1, MW-2, and MW-3 were installed on August 26, 1993. Well MW-4 was installed on September 8, 1993.
Survey of Reference Elevations by Bissell & Karn, of Pleasanton, California, on October 1, 1993.
Groundwater Elevation corrected for the presence of FLH according to the formula:
CDTW = DTW - (0.80 x PT), where CDTW is the corrected depth to groundwater, DTW is the measured depth to groundwater, 0.80 is the density correction factor for diesel (0.75 for unweathered gasoline), and PT is the measured thickness of FLH

Table 2

Summary of Fluids Bailed From Well MW-4
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California

Date	Amount of Fluids Bailed (gallons)	FLH in First Bail (inches)
09/14/93	15	4
09/17/93	3	12
09/20/93	8	8
09/21/93	5	18
09/27/93	3	8
10/04/93	3	6
10/14/93	2	5
10/18/93	2	2
10/26/93	2	sheen
11/01/93	3	sheen
01/11/94	10	sheen
03/31/94	10	6 to 8

Notes:

FLH = Floating liquid hydrocarbons
Fluids Bailed = mixture of water and FLH
Following first bail, well bailed and fluids recovered until FLH removed
All fluids temporarily stored on site in 55-gallon drums pending proper disposal

Table 3

Analytical Results: Groundwater
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California

(Concentrations in µg/l)

Well / Date	Groundwater Elevation	TPH	Benzene	Toluene	Ethyl-Benzene	Total Xylenes
MW-1						
09/21/93	5.08	1,600[1]	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.4)
01/12/94	5.13	610[2]	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.4)
04/04/94	6.19	ND(50) to 510[4]	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MW-2						
09/21/93	6.29	1,900[1]	0.5	ND(0.3)	ND(0.3)	ND(0.4)
01/12/94	5.94	1,800[2]	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.4)
04/04/94	5.68	ND(50) to 1,800	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MW-3						
09/21/93	-4.66	680[1]	ND(0.4)	0.3	ND(0.3)	ND(0.4)
01/12/94	4.84	430[3]	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.4)
04/04/94	6.31	ND(50) to 690	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MW-4						
09/21/93	7.07	1,300[1]	140	110	40	235
01/12/94	8.23	32,000	71	41	20	150
04/04/94	8.59	6,200 to 410,000	140	20	47	310

Notes:

TPH = Total petroleum hydrocarbons
ND() = Not detected at or above the indicated laboratory method detection/reporting limit
na = Not analyzed
Groundwater Elevation in feet relative to Port of Oakland Datum.
Groundwater elevations in MW-4 corrected for the presence of floating liquid hydrocarbons
1 = Laboratory reported result did not match typical diesel pattern.
2 = Laboratory reported result did not match typical diesel pattern. Sample appeared to be oil.
3 = Laboratory reported result did not match typical diesel pattern. Sample appeared to be mixture of diesel and oil.
4 = Laboratory reported hydrocarbons were found in the diesel range, but did not resemble the fingerprint.

Attachment 1

U&A Standard Operating Procedures

CHAIN-OF-CUSTODY PROCEDURES

Sample Handling

All soil and water samples will be labeled with the sample number, date, company name, preservative used, and sampler's initials. A chain-of-custody form will then be filled out including the time and date of the sample, the sample number, the number o containers for each sample, the analysis required and any distinguishing comments or laboratory notifications. The chain-of-custody form will remain with the samples at all times during transportation and storage.

Transfer of Custody to Laboratory

The chain-of-custody will be signed and dated by the sampler when relinquished to the laboratory. The laboratory courier or sample receiver will also sign and date the chain-of-custody.

GROUNDWATER SAMPLING

Groundwater samples for chemical analysis will be collected following this procedure:

All purging and sampling equipment will be decontaminated prior to use.

Upon arrival at the site, the wells will be located and opened up, to allow for equilibration with the atmosphere. The monitoring well is first checked for floating product with a dual interface probe. Water or liquid-level measurements will be collected, to the nearest one hundredth of a foot (0.01 foot). If a probe is not available, a clear plastic bailer may be used to check for product. The volume of water in the well casing will be calculated and three to five casing volumes of water will be evacuated. The well will be bailed or pumped to remove the correct volume of water. Stabilization parameters, temperature, conductivity and pH, will be monitored. For wells with extremely low flow rates, i.e., less than 0.01 gallon per minute (GPM), the well will be bailed dry and allowed to recover overnight, and then sampled.

Once the well has been purged, samples will be collected with a bailer and transferred to appropriate sampling vials or bottles. Samples will be labeled and placed in a cooler, cooled to 4°C and transported to the analytical laboratory under chain-of-custody. Purge water will be stored on-site pending analytical results, and then property disposed of.

Generally, the most rapid improvements from development are noted when development is performed as soon as possible, shortly after the sand pack and bentonite seal have been set.

Development Procedures

All development equipment will be decontaminated prior to use. Development will usually begin by noting fluid-level measurements, and then proceeding slowly, so as to not impact the formation or damage the well screen. Next, a bailer may be used to remove fines which have probably settled in the casing, through the screen during well construction. Typically, a surge block, which is capable of creating significant suction may be used for low flow rate wells. If development is proceeding, or if the formation is of moderate- or high-estimated permeability, pumping may be sufficient to complete development. Development will proceed for 4 hours or until produced groundwater is clear and sand free. All fluids and materials added to and removed from the well will be noted. An initial estimate of the well flow rate will be made, based on well recovery rates or pumping rates. Temperature, conductivity and pH will be monitored during development.

All fluids and materials removed from the well will be stored on-site in drums, pending sampling and analysis. All fluids and materials used and generated by the well installation and development activities will be properly disposed of.

Attachment 2

U&A Monitoring Well Sampling Forms

Monitoring Well Sampling Form

Site Location: 9th Ave & 880
Well Location: Keep on Tracking

Date: 3/31/94
Project Reference #: 96-203

Well #	Time of Sampling	Water Level	Free Product Thickness	Total Depth	Well Volume	Temperature	pH	Electric Conducti
MW-4	2:35		6-8"	4.20	5 gal 5 gal	64.6 63.0	6.7 6.3	10.02 9.65
MW-3	3:15		N/A	4.23	5 gal 2 gal	69.5 66.1	6.7 7.5	NA NA
MW-1	3:45		N/A	4.09	5 gal 7.5 gal	67.1 66.2	7.2 7.4	NA NA
MW-2	4:20		N/A	5.01	5 gal 2 gal	66.0 65.6	7.0 7.2	NA NA

Water Level Measurement Method: Solinst Tape

Free Product Thickness Measurement Method:

Well Purging Procedures: Bailer

Well-Purge Water Characterization and Disposal Methods:

Comments: MW-4 contained a significant amount of product (6-8" first bailer)
MW-3 sulfur smell
Development

Sampling Performed by:

U&A Form: H2Omonit.xls

Monitoring Well Sampling Form

Site Location: Kiepon Trucking
Well Location: 9th ave

Date: 4/4/94
Project Reference #: 96-203

Well #	Time of Sampling	Water Level	Free Product Thickness	Total Depth	Well Volume	Temperature	pH	Electric Conduct
MW-3	12:25	12.06						
MW-1	12:~~20~~	4.96						
MW-2	12:3~~0~~5	4.01						
MW-4	12:~~40~~	4.35						
MW-3	~~1:05~~	1:10	N/A		—	70.1 69.0	6.7 6.8	—
MW-1	~~1:20~~	12:55	N/A			69.5 68.4	6.7 6.6	—
MW-2	1:25		N/A			70.2 69.1	6.8 6.9	—
MW-4	1:40		N/A			66.9 64.1	6.5 6.5	10.52 10.20

Water Level Measurement Method: Solinst tape

Free Product Thickness Measurement Method: - MW-4 - 6" of product
- None at other wells

Well Purging Procedures:

Well-Purge Water Characterization and Disposal Methods: D+M labs

Comments: ~~6~~ 6 inches of product on MW-4

Sampling Performed by: Andy Meyer

U&A Form: H2Omonit.xls

Attachment 3

Laboratory Analytical Reports and Chain-of-Custody Form

D&M LABORATORIES
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Andrew Meyer
Uribe & Associates
2930 Lakeshore Avenue #200
Oakland, CA 94610-3614

April 22, 1994

Customer Project: 96-203 K.O.T.
Laboratory Job: L9404030

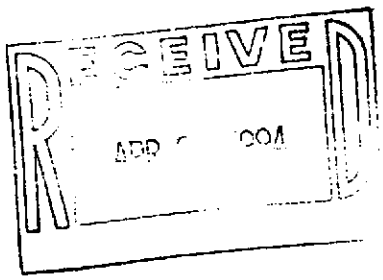
On April 6, 1994 we received 4 sample(s) for analysis. Samples were analyzed by the following method(s):

Diesel (8015 Modified)

BTEX (EPA 8020A)

Mary Vanney
Project Manager

Robert Peak
Laboratory Director
Robert Peak



D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Uribe & Associates
Project Id: 96-203 K.O.T.
Sample Id: MW-1
Lab Id: L9404030-1

Collected: 04-APR-94
Received: 06-APR-94
Reported: 22-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	0.510	0.050	mg/L	08-APR-94	12-APR-94
-	-				
Comments:	Hydrocarbons were found in the range				
-	of diesel but did not resemble the fingerprint.				
-	-				
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Ethyl Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Toluene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Xylene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Gasoline	ND <	0.050	mg/L	08-APR-94	08-APR-94
-	-				
Surrogate:	-				
Bromofluorobenzene	78.	-	%	08-APR-94	08-APR-94
-	-				
Comments:	None				
-	-				
-	-				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Uribe & Associates
Project Id: 96-203 K.O.T.
Sample Id: MW-3
Lab Id: L9404030-2

Collected: 04-APR-94
Received: 06-APR-94
Reported: 22-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	0.690	0.050	mg/L	08-APR-94	12-APR-94
-	-				
Comments:	None				
-	-				
-	-				
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Ethyl Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Toluene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Xylene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Gasoline	ND <	0.050	mg/L	08-APR-94	08-APR-94
-	-				
Surrogate:	-				
Bromofluorobenzene	68.	-	%	08-APR-94	08-APR-94
-	-				
Comments:	None				
-	-				
-	-				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Uribe & Associates
Project Id: 96-203 K.O.T.
Sample Id: MW-2
Lab Id: L9404030-3

Collected: 04-APR-94
Received: 06-APR-94
Reported: 22-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	1.80	0.050	mg/L	08-APR-94	12-APR-94
-	-				
Comments:	None				
-	-				
-	-				
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Ethyl Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Toluene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Xylene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Gasoline	ND <	0.050	mg/L	08-APR-94	08-APR-94
-	-				
Surrogate:	-				
Bromofluorobenzene	84.	-	%	08-APR-94	08-APR-94
-	-				
Comments:	None				
-	-				
-	-				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Uribe & Associates
Project Id: 96-203 K.O.T.
Sample Id: MW-4
Lab Id: L9404030-4

Collected: 04-APR-94
Received: 06-APR-94
Reported: 22-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	410.	10.	mg/L	08-APR-94	20-APR-94
-	-				
Comments:	See Labnote #16.				
-	-				
-	-				
GAS/BTEX-W					
Benzene	140	0.50	ug/L	11-APR-94	11-APR-94
Ethyl Benzene	47.	0.50	ug/L	11-APR-94	11-APR-94
Toluene	20.	0.50	ug/L	11-APR-94	11-APR-94
Xylene	310	0.50	ug/L	11-APR-94	11-APR-94
Gasoline	6.2	0.050	mg/L	11-APR-94	11-APR-94
-	-				
Surrogate:	-				
Bromofluorobenzene	19.	-	%	11-APR-94	11-APR-94
-	-				
Comments:	SEE LABNOTE #14.				
-	-				
-	-				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4401-1

Reported: 20-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	ND <	0.050	mg/L	08-APR-94	12-APR-94
-	-				
Comments:	MX=MB				
-	-				
-	-				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Water Spike
Lab Id: WG4401-2

Reported: 20-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8015DW							
Diesel	0.632	mg/L	1		63 %	08-APR-94	12-APR-94
Comments:	None						

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Water Spike Duplicat
Lab Id: WG4401-3

Reported: 20-APR-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
8015DW						
Diesel	0.723	mg/L	72 %	13.	08-APR-94	12-APR-94
-	-					
Comments:	None					
-	-					
-	-					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4409-6

Reported: 12-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Ethyl Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Toluene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Xylene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Gasoline	ND <	0.050	mg/L	08-APR-94	08-APR-94
Surrogate:					
Bromofluorobenzene	78.		%	08-APR-94	08-APR-94
Comments:	None				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4409-7

Reported: 12-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
GAS/BTEX-W							
Benzene	26.2	ug/L	25	ug/L	104%	08-APR-94	08-APR-94
Ethyl Benzene	26.1	ug/L	25	ug/L	104%	08-APR-94	08-APR-94
Toluene	25.4	ug/L	25	ug/L	102%	08-APR-94	08-APR-94
Xylene	77.7	ug/L	75	ug/L	104%	08-APR-94	08-APR-94
Gasoline	1.03	mg/L	1	mg/L	103%	08-APR-94	08-APR-94
-	-						
Surrogate:							
Bromofluorobenzene	85.0	%	25	ug/L		08-APR-94	08-APR-94
-	-						
Comments:	None						
-	-						
-	-						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4409-8

Reported: 12-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	11-APR-94	11-APR-94
Ethyl Benzene	ND <	0.50	ug/L	11-APR-94	11-APR-94
Toluene	ND <	0.50	ug/L	11-APR-94	11-APR-94
Xylene	ND <	0.50	ug/L	11-APR-94	11-APR-94
Gasoline	ND <	0.050	mg/L	11-APR-94	11-APR-94
Surrogate: Bromofluorobenzene	77.	-	%	11-APR-94	11-APR-94
Comments:	None				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4409-9

Reported: 12-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
GAS/BTEX-W							
Benzene	26.9	ug/L	25	ug/L	108%	11-APR-94	11-APR-94
Ethyl Benzene	26.4	ug/L	25	ug/L	106%	11-APR-94	11-APR-94
Toluene	26.8	ug/L	25	ug/L	107%	11-APR-94	11-APR-94
Xylene	78.9	ug/L	75	ug/L	105%	11-APR-94	11-APR-94
Gasoline	0.910	mg/L	1	mg/L	91%	11-APR-94	11-APR-94
-	-						
Surrogate:	-						
Bromofluorobenzene	76.0	%	25	ug/L		11-APR-94	11-APR-94
-	-						
Comments:	None						
-	-						
-	-						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: MX
Lab Id: WG4409-1

Reported: 12-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	07-APR-94	07-APR-94
Ethyl Benzene	ND <	0.50	ug/L	07-APR-94	07-APR-94
Toluene	ND <	0.50	ug/L	07-APR-94	07-APR-94
Xylene	ND <	0.50	ug/L	07-APR-94	07-APR-94
Gasoline	ND <	0.050	mg/L	07-APR-94	07-APR-94
Surrogate:					
Bromofluorobenzene	76.	-	%	07-APR-94	07-APR-94
Comments:	MX = L9403259-10.				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike
Lab Id: WG4409-2

Reported: 12-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
GAS/BTEX-W							
Benzene	28.5	ug/L	25	ug/L	114%	08-APR-94	08-APR-94
Ethyl Benzene	27.9	ug/L	25	ug/L	112%	08-APR-94	08-APR-94
Toluene	27.3	ug/L	25	ug/L	109%	08-APR-94	08-APR-94
Xylene	81.0	ug/L	75	ug/L	108%	08-APR-94	08-APR-94
Gasoline	0.990	mg/L	1	mg/L	99%	08-APR-94	08-APR-94
-	-						
Surrogate:	-						
Bromofluorobenzene	81.0	%	25	ug/L		08-APR-94	08-APR-94
-	-						
Comments:	MS = L9403259-11.						
-	-						
-	-						

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike Dup
Lab Id: WG4409-3

Reported: 12-APR-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
GAS/BTEX-W						
Benzene	27.7	ug/L	111%	2.8	08-APR-94	08-APR-94
Ethyl Benzene	28.3	ug/L	113%	1.4	08-APR-94	08-APR-94
Toluene	24.9	ug/L	99%	9.2	08-APR-94	08-APR-94
Xylene	85.0	ug/L	113%	4.8	08-APR-94	08-APR-94
Gasoline	1.03	mg/L	103%	4.0	08-APR-94	08-APR-94
Surrogate:						
Bromofluorobenzene	66.0	%		25.	08-APR-94	08-APR-94
Comments:	MSD = L9403259-12.					

LABORATORY FOOTNOTES

(1) Sample containers were received broken.
(2) The samples were not properly refrigerated during transport to the laboratory.
(3) The samples were not properly preserved.
(4) The information on the chain-of-custody does not match the information on the sample containers.
(5) The samples were received after the required holding time.
(6) This analyte was detected in the method blank above the reporting limit.
(7) This analyte was detected in the trip blank above the reporting limit.
(8) The recovery of the matrix spike indicates the presence of matrix effects. The MBS recovery was acceptable.
(9) The matrix spike recovery is not significant due to the high concentration of the analyte in the sample relative to the amount of spike added.
(10) The method of standard additions was performed and confirmed a matrix interference.
(11) The variation in spike recoveries reflects the nonhomogeneity of the sample.
(12) Accurate quantitation of the surrogate was not possible due to the extent of sample dilution.
(13) The surrogate recovery was high due to the presence of interfering compounds in the sample.
(14) The surrogate recovery was low due to matrix effects. The analysis was repeated with similiar results.
(15) The detection limit was raised due to the insufficient amount of sample available for analysis.
(16) The detection limit was raised due to the dilution required by high-level analytes in the sample.
(17) The detection limit was raised due to the dilution required by high-level non-target analytes in the sample.
(18) These compounds co-elute; therefore, a total value is reported for both.
(19) The sample was tentatively identified and semi-quantitated based on the best chromatographic fit from the available standards.
(20) The sample chromatograph resembled an "aged" hydrocarbon product.
(21) Hydrocarbons were found in the range of gasoline and diesel but did not resemble a gasoline or diesel fingerprint.
(22) This sample was extracted outside of the required holding time.
(23) This sample was analyzed outside of the required holding time.
(24) The variation in duplicate results reflects the nonhomogeneity of the sample.
(25) The recovery of the matrix spike(s) reflects the nonhomogeneity of the sample. The MBS recovery was acceptable.
(26) The sample was not analyzed on a second column.
(27) The presence of di-n-butyl phthalate may be due to laboratory contamination.
(28) This sample was analyzed outside of the required holding time per client request.
(29) The detection limit was raised due to the high background from matrix interferences.

QUALITY CONTROL REPORT

In order to provide you with the means of assessing the quality of the data in our report, **D&M Laboratories** reports the results of Quality Control samples analyzed with your samples.

The Quality Control samples provide the following QC information:

The Method Blank (**MB**) monitors the level of contamination introduced by reagents or glassware. A minimum of one MB is run per batch of 20 samples or less.

The Method Blank Spike (**MBS**) measures the accuracy of analytical techniques and is not subject to matrix effects. A minimum of one MBS is run per batch of 20 samples or less.

The Matrix Spike (**MS**) measures the accuracy of the method for a matrix type. Due to the high variability within matrix types and the necessity of batching samples from varied sources, matrix spike information from one sample is not necessarily relevant to other samples on the batch. A minimum of two matrix spikes, MS and MSD, are run per batch of 20 samples or less. The sample selected for the matrix spike is designated **MX**, and may or may not have been submitted by the recipient of this report.

The Matrix Spike Duplicate (**MSD**), along with the MS, is used to monitor the precision (**RPD**) of the method and to indicate possible non homogeneity of the sample matrix.

Equations used for determining percent recovery and relative percent difference (RPD) are as follows:

MBS % Recovery = (MBS result / MBS spike level) x 100
MS % Recovery = [(MS result - MX result) / MS spike level] x 100
RPD ={ | MS result - MSD result | / [(MS result + MSD result) / 2]} x 100

We continue to strive to improve the quality of service to our clients. We welcome any questions or comments you may have about this information, or about **D&M Laboratories** in general. Please contact a Project Manager for further information.

L7407050

URIBE & ASSOCIATES
ENVIRONMENTAL CONSULTING SERVICES

CHAIN OF CUSTODY RECORD

Project No.: 96-203 | Project Name: Port of Oakland Keeson Trucking (K.O.T.)

REPORT RESULTS TO
Name: Andrea Meyer | Title: Env. Scientist
Company: URIBE & ASSOCIATES
Mailing Address: 2930 LAKESHORE AVE., #200
City, State, Zip: OAKLAND, CA 94610-3614
Telephone No.: (510) 832-2233 | Telefax No.: (510) 832-2237

Purchase Order Number: 201966

SEND INVOICE TO
Name: Dan Schoenholz | Dept. Env
Company: Port of Oakland
Address: 530 Water Street
City, State, Zip: Oakland CA 94607

Turn Around Time: Standard
Rush Charges Authorized? ☐ Yes ☒ No
Phone / Fax Results ☐ ☒

Special Instructions:

NO	DATE	TIME	Matrix/Media	Sample Identification Number	# OF CONTAINERS	TPH-Diesel	BTEX	Remarks
	4/4/94	12:55	Water	MW-1	5	X	X	*(2)
	4/4/94	1:10	Water	MW-3	5	X	X	*(2)
	4/4/94	1:25	Water	MW-2	5	X	X	
	4/4/94	1:40	Water	MW-4	5	X	X	

ANALYSIS REQUESTED

CHAIN OF CUSTODY
Collected by: Andrea Meyer (print) | Collector's Signature: Andrea Meyer
Relinquished by: Andrea Meyer | Date/Time: 4/4/94 5:30 | Received by: | Date/Time:
Relinquished by: | Date/Time: | Received at Lab by: | Date/Time:
Method of Shipment:

Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain):
* VOA's have head space -

Authorized by: Andrea Meyer (Client Signature Must Accompany Request) | Date/Time: 4/4/94 5:30

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☒ N/A
COOLER TEMPERATURE 9° °C

8 liter amber glass

Page ___ of ___

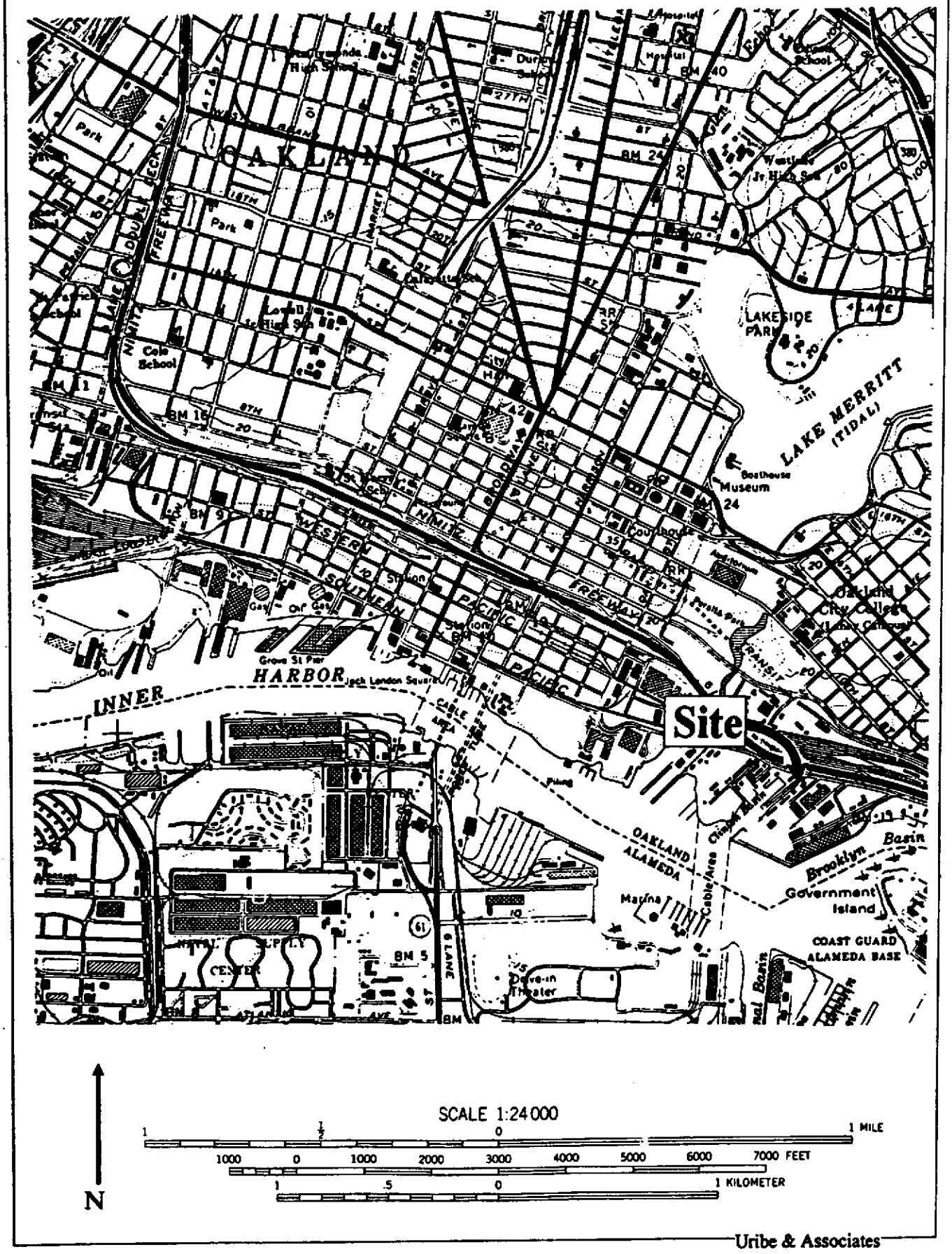


Figure 1: Site Location Map

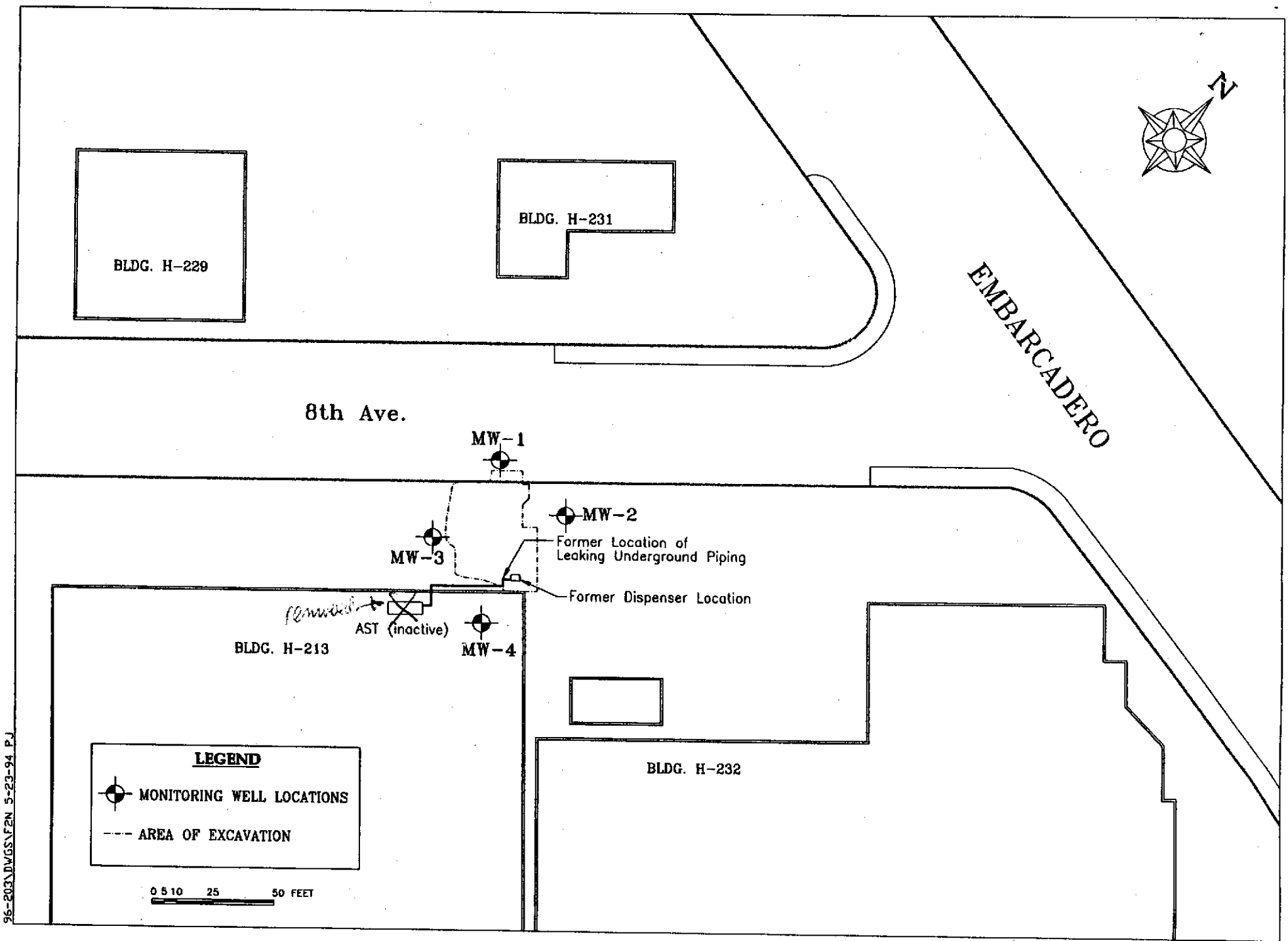


Figure 2: Site Plan, Showing Monitoring Well Locations

Uribe & Associates

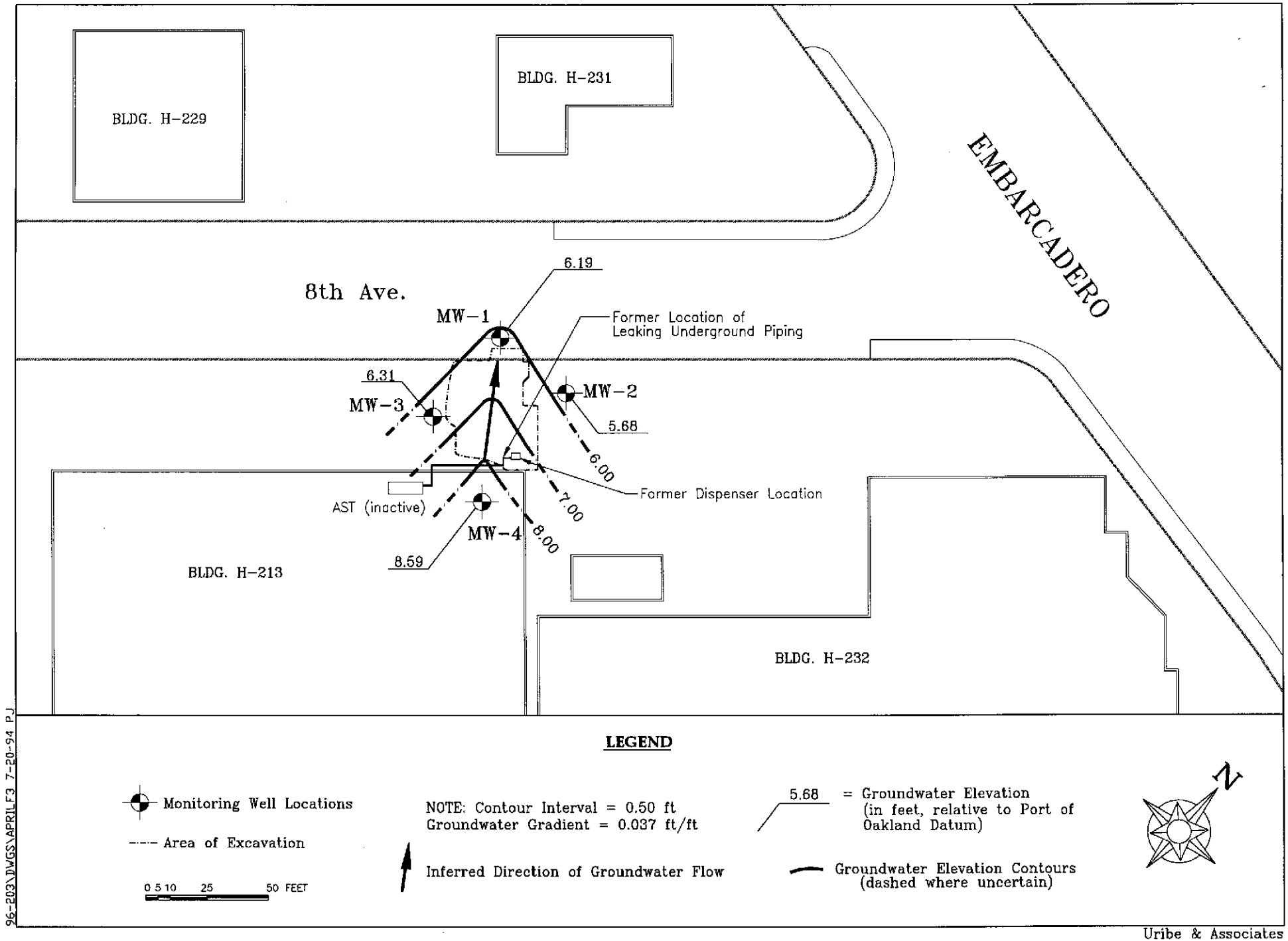


Figure 3: Potentiometric Surface Map: March 31, 1994

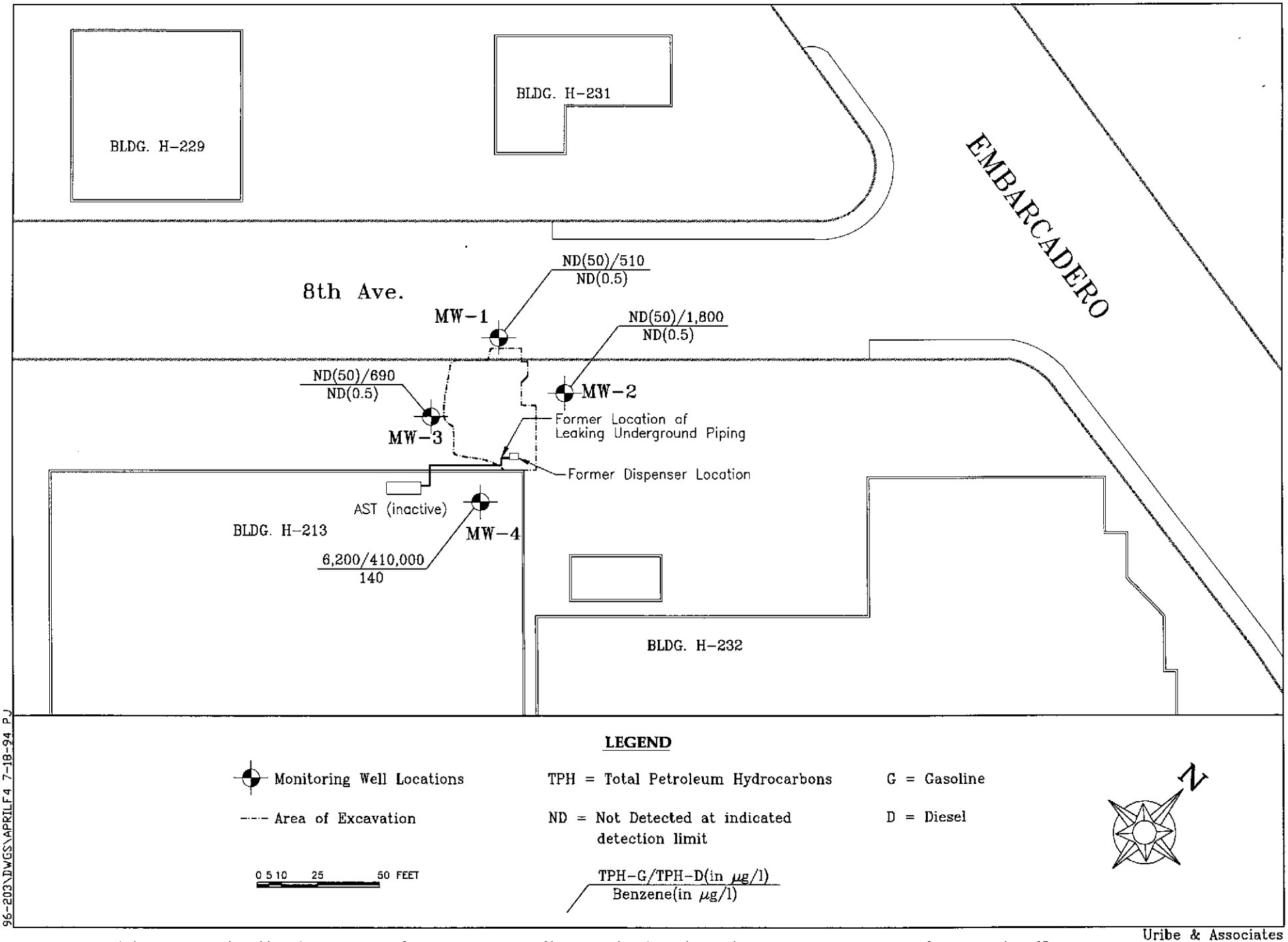


Figure 4: Distribution Map of TPH, as Gasoline and Diesel, and Benzene in Groundwater: April 4, 1994

Table 1

Groundwater Level Data
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California
(All Measurements in Feet)

Well / Date	Reference Elevation	Depth to Groundwater	Depth to FLH	Groundwater Elevation
MW-1				
09/14/93	10.28	5.25	nm	5.03
09/20/93		5.20	nm	5.08
01/12/94		5.15	nm	5.13
03/31/94		4.09	nm	6.19
MW-2				
09/14/93	10.69	5.10	nm	5.59
09/20/93		4.40	nm	6.29
01/12/94		4.75	nm	5.94
03/31/94		5.01	nm	5.68
MW-3				
09/14/93	10.54	13.80	nm	-3.26
09/20/93		15.20	nm	-4.66
01/12/94		5.70	nm	4.84
03/31/94		4.23	nm	6.31

Notes on following page

Table 1 Continued

Groundwater Level Data
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California
(All Measurements in Feet)

Well / Date	Reference Elevation	Depth to Groundwater	Depth to FLH	Groundwater Elevation
MW-4				
09/14/93	12.33	5.30	4.97	7.29
09/20/93		5.80	5.13	7.07
01/12/94		4.10	sheen	8.23
03/31/94		4.20	3.62	8.59

Notes:

Reference Elevations and Groundwater Elevations are relative to mean lower low water (3.2 feet below mean sea level; "Port of Oakland Datum").
FLH = Floating liquid hydrocarbons (assumed to be diesel)
Depth to Groundwater and FLH measured from top of well casing.
nm = Not measured/not observed
sheen = less than 0.01 foot
Wells MW-1, MW-2, and MW-3 were installed on August 26, 1993. Well MW-4 was installed on September 8, 1993.
Survey of Reference Elevations by Bissell & Karn, of Pleasanton, California, on October 1, 1993.
Groundwater Elevation corrected for the presence of FLH according to the formula:
CDTW = DTW - (0.80 x PT), where CDTW is the corrected depth to groundwater, DTW is the measured depth to groundwater, 0.80 is the density correction factor for diesel (0.75 for unweathered gasoline), and PT is the measured thickness of FLH

DTW ↓ FP Depth - (0.8 x PT)
↓ CDTW

Table 2

Summary of Fluids Bailed From Well MW-4
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California

Date	Amount of Fluids Bailed (gallons)	FLH in First Bail (inches)
09/14/93	15	4
09/17/93	3	12
09/20/93	8	8
09/21/93	5	18
09/27/93	3	8
10/04/93	3	6
10/14/93	2	5
10/18/93	2	2
10/26/93	2	sheen
11/01/93	3	sheen
01/11/94	10	sheen
03/31/94	10	6 to 8

Notes:

FLH = Floating liquid hydrocarbons
Fluids Bailed = mixture of water and FLH
Following first bail, well bailed and fluids recovered until FLH removed
All fluids temporarily stored on site in 55-gallon drums pending proper disposal

Table 3

Analytical Results: Groundwater
Keep On Trucking, Building H-213
375 8th Avenue, Oakland, California

(Concentrations in µg/l)

Well / Date	Groundwater Elevation	TPH	Benzene	Toluene	Ethyl-Benzene	Total Xylenes
MW-1						
09/21/93	5.08	1,600[1]	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.4)
01/12/94	5.13	610[2]	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.4)
04/04/94	6.19	ND(50) to 510[4]	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
06/02/94	5.46	540	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MW-2						
09/21/93	6.29	1,900[1]	0.5	ND(0.3)	ND(0.3)	ND(0.4)
01/12/94	5.94	1,800[2]	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.4)
04/04/94	5.68	ND(50) to 1,800	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
06/02/94	6.08`	870	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MW-3						
09/21/93	-4.66	680[1]	ND(0.4)	0.3	ND(0.3)	ND(0.4)
01/12/94	4.84	430[3]	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.4)
04/04/94	6.31	ND(50) to 690	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
06/02/94	6.68	280	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MW-4						
09/21/93	7.07	1,300[1]	140	110	40	235
01/12/94	8.23	32,000	71	41	20	150
04/04/94	8.59	6,200 to 410,000	140	20	47	310
06/02/94	8.85	ns	ns	ns	ns	ns

Notes:

TPH = Total petroleum hydrocarbons
ND() = Not detected at or above the indicated laboratory method detection/reporting limit
na = Not analyzed
Groundwater Elevation in feet relative to Port of Oakland Datum.
Groundwater elevations in MW-4 corrected for the presence of floating liquid hydrocarbons
1 = Laboratory reported result did not match typical diesel pattern.
2 = Laboratory reported result did not match typical diesel pattern. Sample appeared to be oil.
3 = Laboratory reported result did not match typical diesel pattern. Sample appeared to be of diesel and oil.
4 = Laboratory reported hydrocarbons were found in the diesel range, but did not resemble the fingerprint.

Attachment 1

U&A Standard Operating Procedures

CHAIN-OF-CUSTODY PROCEDURES

Sample Handling

All soil and water samples will be labeled with the sample number, date, company name, preservative used, and sampler's initials. A chain-of-custody form will then be filled out including the time and date of the sample, the sample number, the number o containers for each sample, the analysis required and any distinguishing comments or laboratory notifications. The chain-of-custody form will remain with the samples at all times during transportation and storage.

Transfer of Custody to Laboratory

The chain-of-custody will be signed and dated by the sampler when relinquished to the laboratory. The laboratory courier or sample receiver will also sign and date the chain-of-custody.

GROUNDWATER SAMPLING

Groundwater samples for chemical analysis will be collected following this procedure:

All purging and sampling equipment will be decontaminated prior to use.

Upon arrival at the site, the wells will be located and opened up, to allow for equilibration with the atmosphere. The monitoring well is first checked for floating product with a dual interface probe. Water or liquid-level measurements will be collected, to the nearest one hundredth of a foot (0.01 foot). If a probe is not available, a clear plastic bailer may be used to check for product. The volume of water in the well casing will be calculated and three to five casing volumes of water will be evacuated. The well will be bailed or pumped to remove the correct volume of water. Stabilization parameters, temperature, conductivity and pH, will be monitored. For wells with extremely low flow rates, i.e., less than 0.01 gallon per minute (GPM), the well will be bailed dry and allowed to recover overnight, and then sampled.

Once the well has been purged, samples will be collected with a bailer and transferred to appropriate sampling vials or bottles. Samples will be labeled and placed in a cooler, cooled to 4°C and transported to the analytical laboratory under chain-of-custody. Purge water will be stored on-site pending analytical results, and then property disposed of.

Generally, the most rapid improvements from development are noted when development is performed as soon as possible, shortly after the sand pack and bentonite seal have been set.

Development Procedures

All development equipment will be decontaminated prior to use. Development will usually begin by noting fluid-level measurements, and then proceeding slowly, so as to not impact the formation or damage the well screen. Next, a bailer may be used to remove fines which have probably settled in the casing, through the screen during well construction. Typically, a surge block, which is capable of creating significant suction may be used for low flow rate wells. If development is proceeding, or if the formation is of moderate- or high-estimated permeability, pumping may be sufficient to complete development. Development will proceed for 4 hours or until produced groundwater is clear and sand free. All fluids and materials added to and removed from the well will be noted. An initial estimate of the well flow rate will be made, based on well recovery rates or pumping rates. Temperature, conductivity and pH will be monitored during development.

All fluids and materials removed from the well will be stored on-site in drums, pending sampling and analysis. All fluids and materials used and generated by the well installation and development activities will be properly disposed of.

Attachment 2

U&A Monitoring Well Sampling Forms

Monitoring Well Sampling Form

Site Location: 9th Ave & 880
Well Location: Keep on Trucking

Date: 3/31/94
Project Reference #: 96-203

Well #	Time of Sampling	Water Level	Free Product Thickness	Total Depth	Well Volume	Temperature	pH	Electric Conductivity
MW-4	2:35		6-8"	4.20	5 gal 5 gal	64.6 63.0	6.7 6.3	10.02 x1000 9.65 x1000
MW-3	3:15		N/A	4.23	5 gal 2 gal	69.5 66.1	6.7 7.5	NA NA
MW-1	3:45		N/A	4.09	5 gal 7.5 gal	67.1 66.2	7.2 7.4	NA NA
MW-2	4:20		N/A	5.01	5 gal 2 gal	66.0 65.6	7.0 7.2	NA NA

Water Level Measurement Method: Solinst Tape

Free Product Thickness Measurement Method:

Well Purging Procedures: Bailer

Well-Purge Water Characterization and Disposal Methods:

Comments: MW-4 contained a significant amount of product (6-8" first bailer)
MW-3 sulfur smell
Developed

Sampling Performed by: Andy

U&A Form: H2Omonit.xls

Monitoring Well Sampling Form

Site Location: Kuparuk Trucking
Well Location: 9th ave

Date: 4/4/94
Project Reference #: 96-203

Well #	Time of Sampling	Water Level	Free Product Thickness	Total Depth	Well Volume	Temperature	pH	Electric Conductivity
MW-3	12:25	12.06						
MW-1	12:29	4.96						
MW-2	12:35	4.01						
MW4	12:40	4.35						
MW-3	~~12:35~~ 1:05	1:10	N/A		—	70.1 69.0	6.7 6.8	—
MW-1	~~1:20~~ 1:20	12:55	N/A			69.5 68.4	6.7 6.6	—
MW-2	1:25		N/A			70.2 69.1	6.8 6.9	—
MW-4	1:40		N/A			65.9 64.1	6.5 6.6	10.52 x10 10.20 x10

Water Level Measurement Method: Solinst tape

Free Product Thickness Measurement Method: - MW-4 - 6" of product - None at other wells

Well Purging Procedures:

Well-Purge Water Characterization and Disposal Methods: D+M labs

Comments: 6 inches of product on MW-4

Sampling Performed by: Andy Meyer

U&A Form: H2Omonit.xls

Attachment 3

Laboratory Analytical Reports and Chain-of-Custody Form

D&M LABORATORIES
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

April 22, 1994

Andrew Meyer
Uribe & Associates
2930 Lakeshore Avenue #200
Oakland, CA 94610-3614

Customer Project: 96-203 K.O.T.
Laboratory Job: L9404030

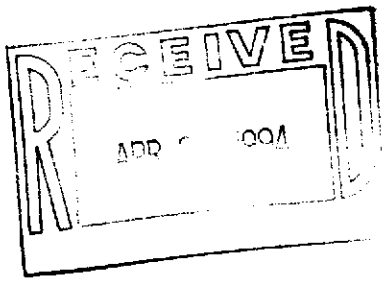
On April 6, 1994 we received 4 sample(s) for analysis. Samples were analyzed by the following method(s):

Diesel (8015 Modified)

BTEX (EPA 8020A)

Project Manager

Laboratory Director
Robert Peak



D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Uribe & Associates
Project Id: 96-203 K.O.T.
Sample Id: MW-1
Lab Id: L9404030-1

Collected: 04-APR-94
Received: 06-APR-94
Reported: 22-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	0.510	0.050	mg/L	08-APR-94	12-APR-94
-	-				
Comments:	Hydrocarbons were found in the range				
-	of diesel but did not resemble the fingerprint.				
-	-				
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Ethyl Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Toluene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Xylene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Gasoline	ND <	0.050	mg/L	08-APR-94	08-APR-94
-	-				
Surrogate:	-				
Bromofluorobenzene	78.	-	%	08-APR-94	08-APR-94
-	-				
Comments:	None				
-	-				
-	-				

D&N Laboratories

ANALYTICAL DATA REPORT

Prepared for: Uribe & Associates
Project Id: 96-203 K.O.T.
Sample Id: MW-2
Lab Id: L9404030-3

Collected: 04-APR-94
Received: 06-APR-94
Reported: 22-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	1.80	0.050	mg/L	08-APR-94	12-APR-94
-	-				
Comments:	None				
-	-				
-	-				
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Ethyl Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Toluene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Xylene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Gasoline	ND <	0.050	mg/L	08-APR-94	08-APR-94
-	-				
Surrogate:	-				
Bromofluorobenzene	84.	-	%	08-APR-94	08-APR-94
-	-				
Comments:	None				
-	-				
-	-				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Uribe & Associates
Project Id: 96-203 K.O.T.
Sample Id: MW-3
Lab Id: L9404030-2

Collected: 04-APR-94
Received: 06-APR-94
Reported: 22-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	0.690	0.050	mg/L	08-APR-94	12-APR-94
-	-				
Comments:	None				
-	-				
-	-				
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Ethyl Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Toluene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Xylene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Gasoline	ND <	0.050	mg/L	08-APR-94	08-APR-94
-	-				
Surrogate:	-				
Bromofluorobenzene	68.	-	%	08-APR-94	08-APR-94
-	-				
Comments:	None				
-	-				
-	-				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Uribe & Associates
Project Id: 96-203 K.O.T.
Sample Id: MW-4
Lab Id: L9404030-4

Collected: 04-APR-94
Received: 06-APR-94
Reported: 22-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	410.	10.	mg/L	08-APR-94	20-APR-94
-	-				
Comments:	See Labnote #16.				
-	-				
-	-				
GAS/BTEX-W					
Benzene	140	0.50	ug/L	11-APR-94	11-APR-94
Ethyl Benzene	47.	0.50	ug/L	11-APR-94	11-APR-94
Toluene	20.	0.50	ug/L	11-APR-94	11-APR-94
Xylene	310	0.50	ug/L	11-APR-94	11-APR-94
Gasoline	6.2	0.050	mg/L	11-APR-94	11-APR-94
-	-				
Surrogate:	-				
Bromofluorobenzene	19.	-	%	11-APR-94	11-APR-94
-	-				
Comments:	SEE LABNOTE #14.				
-	-				
-	-				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: MG4401-1

Reported: 20-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8015DW					
Diesel	ND <	0.050	mg/L	08-APR-94	12-APR-94
-	-				
Comments:	MX=MB				
-	-				
-	-				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Water Spike
Lab Id: WG4401-2

Reported: 20-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8015DW							
Diesel	0.632	mg/L	1		63 %	08-APR-94	12-APR-94
-	-						
Comments:	None						
-	-						
-	-						

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Water Spike Duplicat
Lab Id: WG4401-3

Reported: 20-APR-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
8015DW						
Diesel	0.723	mg/L	72 %	13.	08-APR-94	12-APR-94
-	-					
Comments:	None					
-	-					
-	-					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4409-6

Reported: 12-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Ethyl Benzene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Toluene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Xylene	ND <	0.50	ug/L	08-APR-94	08-APR-94
Gasoline	ND <	0.050	mg/L	08-APR-94	08-APR-94
Surrogate: Bromofluorobenzene	78.	-	%	08-APR-94	08-APR-94
Comments:	None				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4409-7

Reported: 12-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
GAS/BTEX-W							
Benzene	26.2	ug/L	25	ug/L	104%	08-APR-94	08-APR-94
Ethyl Benzene	26.1	ug/L	25	ug/L	104%	08-APR-94	08-APR-94
Toluene	25.4	ug/L	25	ug/L	102%	08-APR-94	08-APR-94
Xylene	77.7	ug/L	75	ug/L	104%	08-APR-94	08-APR-94
Gasoline	1.03	mg/L	1	mg/L	103%	08-APR-94	08-APR-94
Surrogate: Bromofluorobenzene	85.0	%	25	ug/L		08-APR-94	08-APR-94
Comments:	None						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4409-8

Reported: 12-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
GAS/BTEX-W						
Benzene	ND	<	0.50	ug/L	11-APR-94	11-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	11-APR-94	11-APR-94
Toluene	ND	<	0.50	ug/L	11-APR-94	11-APR-94
Xylene	ND	<	0.50	ug/L	11-APR-94	11-APR-94
Gasoline	ND	<	0.050	mg/L	11-APR-94	11-APR-94
Surrogate:						
Bromofluorobenzene	77.		-	%	11-APR-94	11-APR-94
Comments:	None					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4409-9

Reported: 12-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
GAS/BTEX-W							
Benzene	26.9	ug/L	25	ug/L	108%	11-APR-94	11-APR-94
Ethyl Benzene	26.4	ug/L	25	ug/L	106%	11-APR-94	11-APR-94
Toluene	26.8	ug/L	25	ug/L	107%	11-APR-94	11-APR-94
Xylene	78.9	ug/L	75	ug/L	105%	11-APR-94	11-APR-94
Gasoline	0.910	mg/L	1	mg/L	91%	11-APR-94	11-APR-94
-	-						
Surrogate:	-						
Bromofluorobenzene	76.0	%	25	ug/L		11-APR-94	11-APR-94
-	-						
Comments:	None						
-	-						
-	-						

O&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: MX
Lab Id: WG4409-1

Reported: 12-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
GAS/BTEX-W					
Benzene	ND <	0.50	ug/L	07-APR-94	07-APR-94
Ethyl Benzene	ND <	0.50	ug/L	07-APR-94	07-APR-94
Toluene	ND <	0.50	ug/L	07-APR-94	07-APR-94
Xylene	ND <	0.50	ug/L	07-APR-94	07-APR-94
Gasoline	ND <	0.050	mg/L	07-APR-94	07-APR-94
Surrogate:					
Bromofluorobenzene	76.	-	%	07-APR-94	07-APR-94
Comments:	MX = L9403259-10.				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike
Lab Id: WG4409-2

Reported: 12-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
GAS/BTEX-W							
Benzene	28.5	ug/L	25	ug/L	114%	08-APR-94	08-APR-94
Ethyl Benzene	27.9	ug/L	25	ug/L	112%	08-APR-94	08-APR-94
Toluene	27.3	ug/L	25	ug/L	109%	08-APR-94	08-APR-94
Xylene	81.0	ug/L	75	ug/L	108%	08-APR-94	08-APR-94
Gasoline	0.990	mg/L	1	mg/L	99%	08-APR-94	08-APR-94
Surrogate:							
Bromofluorobenzene	81.0	%	25	ug/L		08-APR-94	08-APR-94
Comments:	MS = L9403259-11.						

D&H Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike Dup
Lab Id: WG4409-3

Reported: 12-APR-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
GAS/BTEX-W						
Benzene	27.7	ug/L	111%	2.8	08-APR-94	08-APR-94
Ethyl Benzene	28.3	ug/L	113%	1.4	08-APR-94	08-APR-94
Toluene	24.9	ug/L	99%	9.2	08-APR-94	08-APR-94
Xylene	85.0	ug/L	113%	4.8	08-APR-94	08-APR-94
Gasoline	1.03	mg/L	103%	4.0	08-APR-94	08-APR-94
Surrogate:						
Bromofluorobenzene	66.0	%		25.	08-APR-94	08-APR-94
Comments:	MSD = L9403259-12.					

LABORATORY FOOTNOTES

(1) Sample containers were received broken.
(2) The samples were not properly refrigerated during transport to the laboratory.
(3) The samples were not properly preserved.
(4) The information on the chain-of-custody does not match the information on the sample containers.
(5) The samples were received after the required holding time.
(6) This analyte was detected in the method blank above the reporting limit.
(7) This analyte was detected in the trip blank above the reporting limit.
(8) The recovery of the matrix spike indicates the presence of matrix effects. The MBS recovery was acceptable.
(9) The matrix spike recovery is not significant due to the high concentration of the analyte in the sample relative to the amount of spike added.
(10) The method of standard additions was performed and confirmed a matrix interference.
(11) The variation in spike recoveries reflects the nonhomogeneity of the sample.
(12) Accurate quantitation of the surrogate was not possible due to the extent of sample dilution.
(13) The surrogate recovery was high due to the presence of interfering compounds in the sample.
(14) The surrogate recovery was low due to matrix effects. The analysis was repeated with similiar results.
(15) The detection limit was raised due to the insufficient amount of sample available for analysis.
(16) The detection limit was raised due to the dilution required by high-level analytes in the sample.
(17) The detection limit was raised due to the dilution required by high-level non-target analytes in the sample.
(18) These compounds co-elute; therefore, a total value is reported for both.
(19) The sample was tentatively identified and semi-quantitated based on the best chromatographic fit from the available standards.
(20) The sample chromatograph resembled an "aged" hydrocarbon product.
(21) Hydrocarbons were found in the range of gasoline and diesel but did not resemble a gasoline or diesel fingerprint.
(22) This sample was extracted outside of the required holding time.
(23) This sample was analyzed outside of the required holding time.
(24) The variation in duplicate results reflects the nonhomogeneity of the sample.
(25) The recovery of the matrix spike(s) reflects the nonhomogeneity of the sample. The MBS recovery was acceptable.
(26) The sample was not analyzed on a second column.
(27) The presence of di-n-butyl phthalate may be due to laboratory contamination.
(28) This sample was analyzed outside of the required holding time per client request.
(29) The detection limit was raised due to the high background from matrix interferences.

CUSTOMER INVOICE

Project Manager: Andrew Meyer
Project: 96-203 K.O.T.
Customer Code: URIBE/PORT
Lab PM: Mary Janney

Invoice Number: 145919
Invoice Date: 22-APR-94
P.O. #: 201966
Terms: Net 30 Days

BILL TO:

Dan Schoenholtz
Port of Oakland
530 Water Street
Oakland, CA 94607

REMIT TO:
Accounting Office
D&M Laboratories
P.O. Box 808024
Petaluma, CA 94975-8024
Tel. (707) 763-8245

Client Id: MW-1, MW-3, MW-2, MW-4
Lab Id: L9404030-1, L9404030-2, L9404030-3, L9404030-4

Qty	Matrix	Description	Unit Price	Total Price
1	NONE	Liquidated Damages	$ -21.60	$ -21.60
4	Water	Diesel	$ 54.00	$ 216.00
4	Water	BTEX	$ 54.00	$ 216.00

4 Samples; 9 Analyses; Total Amount Due: $ 410.40

QUALITY CONTROL REPORT

In order to provide you with the means of assessing the quality of the data in our report, **D&M Laboratories** reports the results of Quality Control samples analyzed with your samples.

The Quality Control samples provide the following QC information:

The Method Blank (**MB**) monitors the level of contamination introduced by reagents or glassware. A minimum of one MB is run per batch of 20 samples or less.

The Method Blank Spike (**MBS**) measures the accuracy of analytical techniques and is not subject to matrix effects. A minimum of one MBS is run per batch of 20 samples or less.

The Matrix Spike (**MS**) measures the accuracy of the method for a matrix type. Due to the high variability within matrix types and the necessity of batching samples from varied sources, matrix spike information from one sample is not necessarily relevant to other samples on the batch. A minimum of two matrix spikes, MS and MSD, are run per batch of 20 samples or less. The sample selected for the matrix spike is designated **MX**, and may or may not have been submitted by the recipient of this report.

The Matrix Spike Duplicate (**MSD**), along with the MS, is used to monitor the precision (**RPD**) of the method and to indicate possible non homogeneity of the sample matrix.

Equations used for determining percent recovery and relative percent difference (RPD) are as follows:

MBS % Recovery = (MBS result / MBS spike level) x 100
MS % Recovery = [(MS result - MX result) / MS spike level] x 100
RPD ={ | MS result - MSD result | / [(MS result + MSD result) / 2]} x 100

We continue to strive to improve the quality of service to our clients. We welcome any questions or comments you may have about this information, or about **D&M Laboratories** in general. Please contact a Project Manager for further information.

L9404030

U&A URIBE & ASSOCIATES
ENVIRONMENTAL CONSULTING SERVICES

CHAIN OF CUSTODY RECORD

Project No.: 96-203

Project Name: Port of Oakland Keep on Trucking (K.O.T.)

Purchase Order Number: 201966

REPORT RESULTS TO
Name: Andrea Meyer Title: Env. Scientist
Company: URIBE & ASSOCIATES
Mailing Address: 2930 LAKESHORE AVE., #200
City, State, Zip: OAKLAND, CA 94610-3614
Telephone No.: (510) 832-2233 Telefax No.: (510) 832-2237

SEND INVOICE TO
Name: Dan Schoenholz Dept. Env
Company: Port of Oakland
Address: 530 Water Street
City, State, Zip: Oakland CA 94607

Turn Around Time: Standard

Rush Charges Authorized? ☐ Yes ☒ No

Phone / Fax Results ☐ ☒

Special Instructions:

ANALYSIS REQUESTED

NO	DATE	TIME	Matrix/Media	Sample Identification Number	# OF CONTAINERS	TPH-Diesel	BTEX							Remarks
	4/4/94	12:55	Water	MW-1	5	X	X							*(2)
	4/4/94	1:10	Water	MW-3	5	X	X							*(2)
	4/4/94	1:25	Water	MW-2	5	X	X							
	4/4/94	1:40	Water	MW-4	5	X	X							

RECEIVED D&M LABORATORIES '94 APR -5 AM 9 34

CHAIN OF CUSTODY

Collected by: (print) Andrea Meyer

Collector's Signature: Andrea Meyer

Relinquished by: Andrea Meyer Date/Time: 4/4/94 5:30

Received by: Date/Time:

Relinquished by: Date/Time:

Received at Lab by: [signature] Date/Time:

Method of Shipment:

Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain):
* VOA's have head space

Authorized by: Andrea Meyer Date/Time: 4/4/94 5:30
(Client Signature Must Accompany Request)

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☒ N/A

COOLER TEMPERATURE 9° °C

8 liter amber glass
12 VOAS

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