

SEP 10 2001

QUALITY CONTROL BOARD

eva

MEMORANDUM

September 5, 2001

TO: California Regional Water Quality Control Board
 San Francisco Bay Region
 1515 Clay Street, Suite 1400, Oakland, California 94612

ATTN: ✓ Chuck Headlee

FROM: Custom Alloy Scrap Sales, Inc.

SUBJECT: Your Request for Submittal of Information on 2730 Peralta Street,
 Oakland, California

A. CORRECTIONS TO THE BACKGROUND STATEMENTS IN YOUR LETTER DATED AUGUST 13, 2001.

1. The only metal smelted by CASS is aluminum. The site is zoned heavy industrial, M-30.
2. Minerals spirits are not stored in 55 gallon drums. Waste oils and lubricants are stored less than 90 days and are manifested for disposal.
3. CASS was advised by its environmental consultant that the free product in the PG&E utility vaults likely came from offsite. At the time the USTs were in use, CASS believes that permits, monitoring records and tank tightness test records were not required. The USTs were removed over 11 years ago. Waste Oil was stored in 55 gallon drums with a secondary containment structure to hold the drums.

Clayton tested tank in 3/89. the piping from tank to dispenser did not pass pressure test USTs removed in 4/90

*Nov 16, 1989
 See April 3, 1989 letter from ACHCS to CASS*

The majority of the violations noted in 1989 were addressed by CASS' consultants. At no time did the County indicate that CASS was the source of the free product in the PG&E vaults.

5. Based upon the environmental reports prepared by CASS' consultant, as of 1996, contamination was minimal. As we understand it, the cancerous chemicals, BTEX were all non-detect. It is my understanding that the RBSL (Risk Based Screening Level - Tier 1) for gasoline and diesel in groundwater is 5,000 ug/L with an upper limit of 50,000 ug/L. The gasoline and diesel levels are below

Surface soil -> up to 40,000 ppm TOC; 24,000 ppm TPHd (11/10/89 to)

Soil from tank pit -> 340 ppm TOC; 7,400 ppm TPHd (5/10/90 to)

50,000 ug/L. The high diesel level in MW6 is unusual, compared to the prior years, and may be an aberration. *FP in wells MW-1 and MW-2*

6. CASS encloses the 1995 and 1996 environmental reports which were located in our storage files. These reports provide a summary of the groundwater results.

B. REQUEST FOR CLOSURE

The chemicals remaining in the groundwater present a minimal health risk. Since the levels of diesel and gasoline are below the upper limit for contamination in groundwater, CASS requests site closure.

C. ANSWERS TO SPECIFIC QUESTIONS

1. Time period Custom Alloy Scrap sales has owned property.

Answer: CASS has owned the property at 2730 Peralta Street since June 29, 1979.

2. Each lessee that has operated at the site during this time period.

Answer: There have been no lessee's on this site since the purchase of the property in 1979.

3. The name, current mailing address, contact person, and current phone number for any other prior property owners or operators, to the extent that this information is known or reasonably available.

Answer: Philip Scheibner and Nettie Scheibner were the property owners from 1948 until 1979.

4. Description of sources consulted to respond to above items written records.

Answer: Chal Sulprizio & First American Title Guaranty Company Title Report.

5. Detailed description of operations at property during this time period.

Answer: Non-Ferrous and Ferrous Metal Recycling Business.

6. List of chemicals stored, used, handled, produced, recycled, or disposed at the property during this period.

Answer: The primary bulk chemicals located and used at this site were propane, oxygen, diesel, gasoline.

September 5, 2001

Page 3

7. Detailed description of chemical storage, chemical handling, chemical treatment, chemical disposal at property. Key information should be shown on a facility map.

Answer: The chemicals listed in item 6 were stored and used at the mentioned site. CASS did not, treat or dispose of those chemicals at the site.

No site plan, No detailed description of chemical storage.

8. Information on any past chemical spills or releases at the property during this period, including chemical type, release location, and any remedial actions taken.

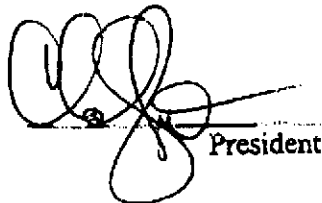
Answer: See attachments.

9. Summary of all past investigations, including Phase I Environmental Assessment results. Soil and groundwater quality data should be tabulated. In addition, soil and groundwater data should be plotted on a site map. Include data from on-site and off-site investigations and subsequent monitoring events. Relevant data from nearby sites should be included.

Answer: See attachments.

10. A statement that the information provided in response to the above items is full, true, and correct, under penalty of perjury.

Answer: The information provided is true and correct to the best of my knowledge.



President

9/7/01
Date

JOHN H. SAMMONS, Ph.D.
2011 Feliz Road, Novato, CA 94945
[415] 892 8005

Mrs. Susan L. Hugo
Alameda County Department of Environmental Health
Environmental Protection
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: Custom Alloy Scrap Sales, 2767 Peralta Street, Oakland, CA 94123

Dear Mrs. Hugo:

In your recent telephone message you requested a status report on the CASS site which I am happy to provide.

On 25 May 1995, a **Quarterly Monitoring and Product Recovery Report** was submitted to your office in which the analytical results for monitoring wells MW3, MW4, MW5, MW6, MW7, MW8 and MW9 were reported and the following recommendations made:

1. Reduce the sampling frequency for wells MW5 through MW9 to annually.
2. Reduce sampling frequency for wells MW3 and MW4 to semi-annually.
3. Continue sampling MW6 quarterly for three additional quarters.
4. Analyze groundwater from wells MW3 -- MW9 for TPH(d) only.
5. Analyze groundwater from MW6 for TPH(d), TPH(g) and BTEX only.

On 12 December 1995, because we had not received a response to our recommendations of the May report, I informed you that we would be sampling MW6 only this month.

On 23 January 1996, a **Quarterly Monitoring and Product Recovery Report** was submitted to your office in which the analytical results for monitoring well MW6 was reported and the following recommendations made.

1. The site should be classified, under the LLNL criteria, as a low risk site.
2. The requirement to monitor of wells MW3, MW4, MW5, MW6 and MW8 should be dropped and the wells properly abandoned.
3. Wells MW7 and MW9 provide adequate compliance monitoring points. Groundwater from MW7 will be analyzed for TPH(d), TPH(g) and BTEX and groundwater from MW(will be analyzed for TPH(d) only.

Because no response to any of the reports and correspondence mentioned above has been received by CASS they have ceased any activities relating to the state until such time as the issues listed above can be resolved.

We will be happy to meet with you discuss these issues.

Sincerely,

John H. Sammons, Ph.D.
2011 Feliz Road
Novato, CA 94945
[415] 892 8005

23 January 1996

Ms Susan Hugo
Alameda County Health Agency
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

RE: Quarterly Groundwater Monitoring Report, CASS, 2730 Peralta Street, Oakland

Dear Ms Hugo:

This report has been prepared to document the results of recently completed quarterly monitoring and sampling of groundwater monitoring well MW6 at the 2767 Peralta Street site (**Figure 1**). The report discusses the sampling of well MW6 done on 27 December 1995 and the status of the product recovery in wells MW1 and MW2.

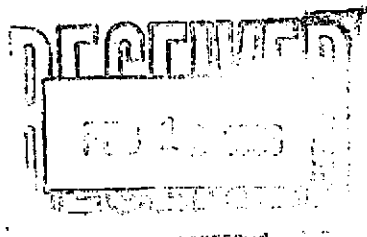
WORK DESCRIPTION

Groundwater Sampling Procedures

Monitoring MW6 was measured, purged and sampled on 27 December 1995. Monitoring wells MW1 and MW2 were checked for product thickness on 7 December 1995 and 10 January 1996 using a clear bailer. A general layout of the site and location of monitoring wells is shown on **Figure 2**.

Details of the sampling procedures are described below:

1. The static depth to groundwater at monitoring well MW6 was determined using a Keck Interface Probe.



This well, MW6, is located downgradient from the location where a gasoline underground storage tank was removed and has consistently shown impaction by gasoline and diesel range petroleum hydrocarbons. The presence of the diesel in this part of the site has remained an enigma since there is no historic indications that diesel fuel was ever stored in this area together with the fact that this entire portion of the yard is paved with at least 6-inches of concrete. It is our opinion that the diesel is probably migrating onto the site from an off-site location.

RECOMMENDATIONS

In our opinion, the groundwater at this site meets the "low risk" criteria established in the October 1995 Lawrence Livermore National Laboratory (LLNL) Report on Leaking Underground Storage (UST) Cleanup and the December 5, 1995 State Water Resources Control Board letter.

We therefore recommend that the requirement to monitor wells MW3, MW4, MW5, MW6 and MW8 be dropped entirely and that these wells be properly abandoned.

These recommendations are predicated on our opinion that, under the guidance provided by the LLNL Report, wells MW7 and MW9 provide adequate compliance monitoring points for the previous gasoline tank site and the previous diesel tank site. Groundwater from MW7 will be analyzed for TPHD, TPHG and BTEX and groundwater from MW9 will be analyzed for TPHD only.

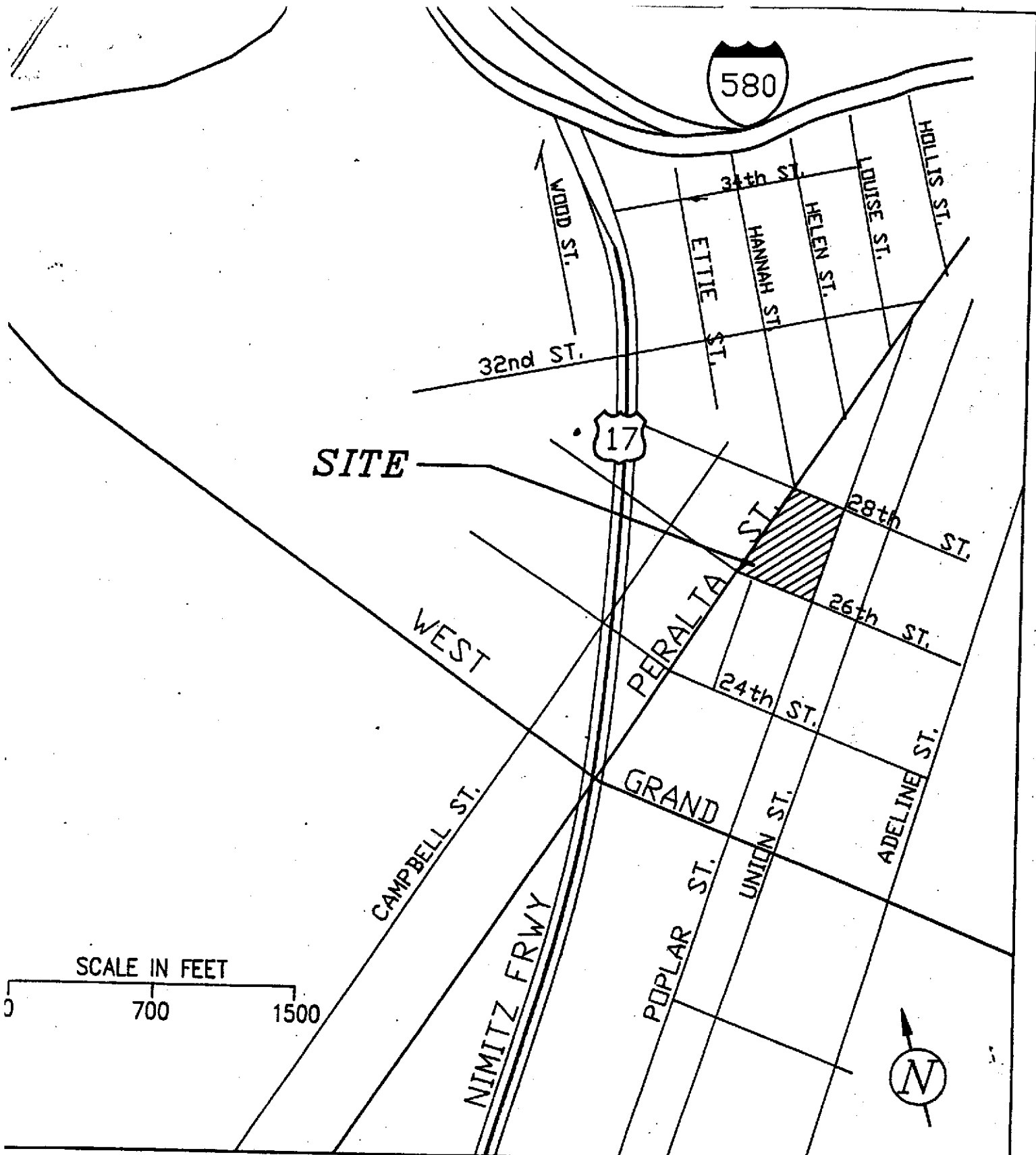
Wells MW1 and MW2 will continue to be monitored on a weekly basis for free product and, if product appears, the soakase systems will be reinstalled and maintained until such time as the product is no longer present.


John H. Sammons, Ph.D.


Marc W. Seeley
C.E.G. #1014



FIGURES



Name: SITE LOCATION MAP
 Address: CUSTOM ALLOY SCRAP SALES
 Address: 2730 PERALTA STREET, OAKLAND, CALIFORNIA

Scale: AS SHOWN
 Date: MAY 1995

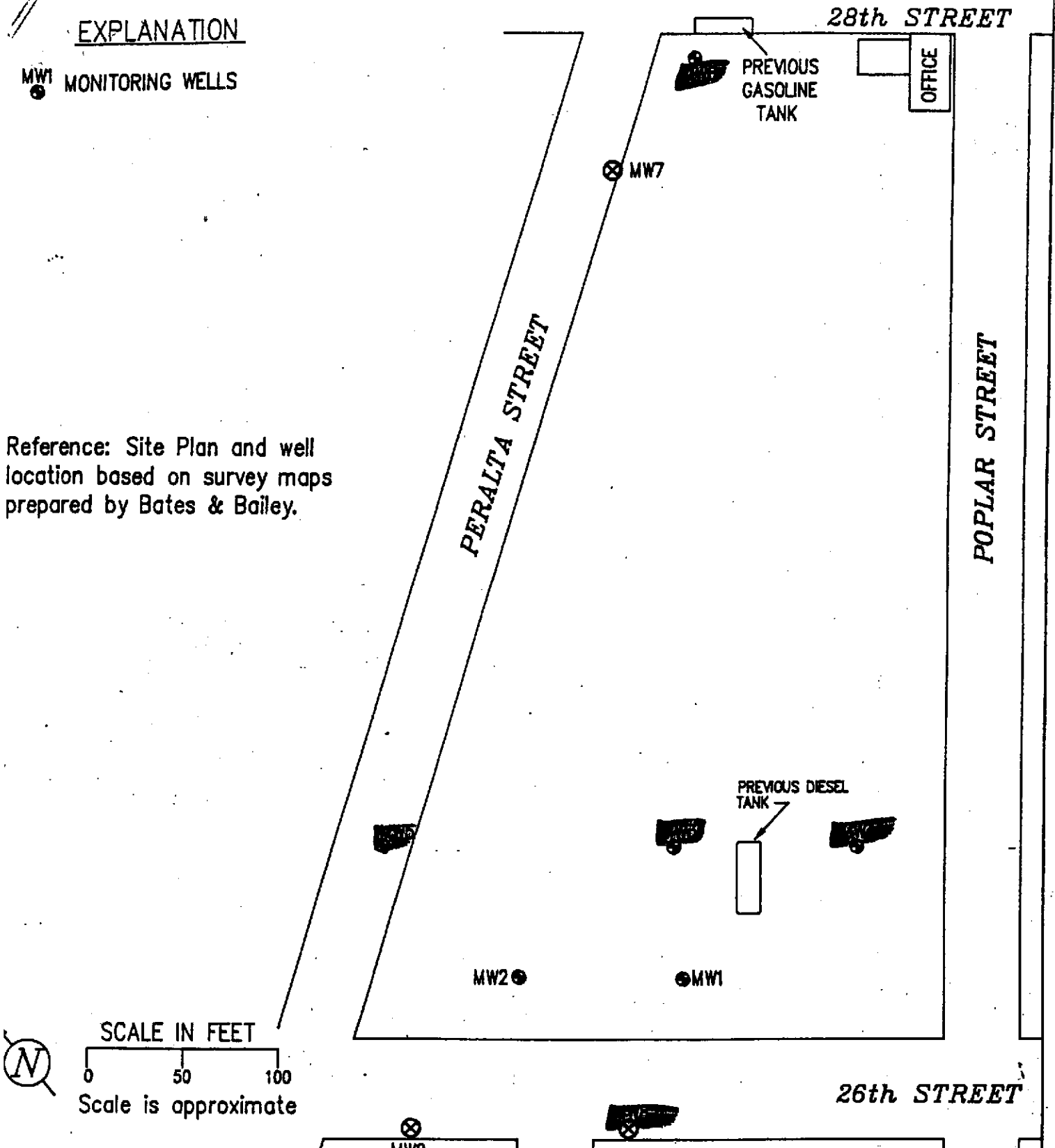
John H. Sammons, Ph.D.
 2011 Feliz Road Novato, CA 94945

Figure:
1

EXPLANATION

MW1 MONITORING WELLS

Reference: Site Plan and well location based on survey maps prepared by Bates & Bailey.



Loc: MONITORING WELL LOCATIONS
 Client: CUSTOM ALLOY SCRAP SALES
 Address: 2730 PERALTA STREET, OAKLAND, CALIFORNIA

Scale: APPROX. 1" = 70'
 Date: MAY 1995

John H. Sammons, Ph.D.
 2011 Feliz Road Novato, CA 94945

Figure:
2

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - PETROLEUM HYDROCARBONS
 CUSTOM ALLOY SCRAP SALES
 2730 Peralta Street
 Oakland, California

WELL #	DATE	TPHd ppb	TPHg ppb	BENZENE ppb	TOLUENE ppb	ETHYLBENZENE ppb	XYLENES ppb
MW3	06/90	ND	ND	1.8	ND	0.5	ND
	10/90	270	ND	0.9	ND	ND	1.6
	01/91	320	ND	2.1	ND	ND	ND
	05/91	220	NA	3.3	ND	ND	ND
	08/91	ND	NA	8.6	ND	ND	1
	12/91	70	ND	3.3	ND	ND	1
	05/92	1400	ND	2.2	ND	ND	0.6
	08/92	1900	ND	1.8	ND	ND	ND
	08/93	100	ND	ND	ND	ND	ND
	03/94	1600	ND	ND	ND	ND	ND
	07/94	2000	ND	ND	ND	ND	ND
	05/95	190	ND	ND	ND	ND	ND
	12/96	NT	NT	NT	NT	NT	NT
MW4	10/90	350	ND	0.3	ND	ND	0.4
	01/91	180	ND	ND	ND	ND	ND
	05/91	80	NA	ND	ND	ND	ND
	08/91	130	NA	ND	ND	ND	ND
	12/91	ND	ND	ND	ND	ND	ND
	05/92	860	ND	1.3	ND	ND	ND
	08/92	860	ND	ND	1.4	ND	ND
	08/93	1100	ND	ND	ND	ND	ND
	03/94	3100	ND	ND	ND	ND	ND
	07/94	1900	ND	ND	ND	ND	ND
	05/95	460	ND	ND	ND	ND	ND
	12/96	NT	NT	NT	NT	NT	NT
	MW5	10/90	ND	ND	ND	ND	ND
01/91		ND	ND	ND	ND	ND	ND
05/91		ND	NA	ND	ND	ND	ND
08/91		ND	NA	ND	ND	ND	ND
12/91		ND	ND	ND	ND	ND	ND
05/92		ND	ND	ND	ND	ND	ND
08/92		ND	ND	ND	ND	ND	ND
07/93		ND	ND	ND	ND	ND	ND
03/94		ND	ND	ND	ND	ND	ND
07/94		ND	ND	ND	ND	ND	ND
05/95		ND	ND	ND	ND	ND	ND
12/96		NT	NT	NT	NT	NT	NT
MW6		10/90	800	220	4.9	4.6	0.9
	01/91	5300	1700	43	6	4.3	12
	05/91	5100	880	11	2.2	2.1	4.8
	08/91	26000	12000	12000	20000	2200	12000
	12/91	5200	1100	6.3	2.1	1.8	3.3
	05/92	13000	690	2.2	1.4	0.6	ND
	08/92	12000	1200	5.6	2.3	1.3	0.89
	07/93	2900	510	2	0.5	ND	0.9
	03/94	580	1900	0.8	2.9	0.7	ND
	07/94	4600	520	0.8	ND	ND	ND
	05/95	720	300	ND	ND	ND	0.98
	12/96	14,000	490	ND	ND	ND	1.1
	MW7	05/95	ND	ND	ND	ND	ND
12/96		NT	NT	NT	NT	NT	NT
MW8	05/95	ND	ND	ND	ND	ND	ND
	12/96	NT	NT	NT	NT	NT	NT
MW9	05/95	ND	ND	ND	ND	ND	ND
	12/96	NT	NT	NT	NT	NT	NT

Notes:

PPB = Parts per billion/micrograms per liter

ND = Constituent was not detected in this sample

John H. Sammons, Ph.D.
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25 May 1995

Mr. Pat O'Brien
Custom Alloy Scrap Sales
2767 Peratta Street
Oakland, CA 94123

Subject: Quarterly Monitoring and Product Recovery Report.

Dear Mr. O'Brien:

This report has been prepared to document the results of recently completed quarterly monitoring and sampling of groundwater wells on and around the 2767 Peratta Street site (**Figure 1**). The report discusses monitoring and sampling performed at the site on 13 April and 5 May, 1995. On 13 April 1995, monitoring wells MW1, MW2, MW5, MW6, MW7, MW8 and MW9 were monitored and sampled. Wells MW3 and MW4 were not accessible because of site activities. These wells, MW3 and MW4, were monitored and sampled on 5 May 1995.

WORK DESCRIPTION

Groundwater Sampling Procedures

Monitoring wells MW5, MW6, MW7, MW8 and MW9 were measured, purged and sampled on 13 April 1995. Monitoring wells MW1 and MW2 were checked for product thickness on 13 April and 5 May 1995 using a Keck Interface Probe. Monitoring wells MW3 and MW4 were measured purged and sampled on 5 May 1995. A general layout of the site and location of monitoring wells is shown on **Figure 2**.

Details of the sampling procedures are described below:

1. Measure the static depth to groundwater at monitoring wells using a Keck Interface Probe.
2. Purge each well of three to five well casing volumes of groundwater until the pH level, conductivity and temperature stabilized, using dedicated 12-volt direct current submersible pumps. New discharge tubing was attached to each pump prior to use.
3. After being purged, the depth to groundwater was re-measured at each well to determine if static water levels had recovered to within 80% of the initial readings.
4. Using the submersible pump, groundwater samples were collected from each well through the tubing into appropriate laboratory containers.

Groundwater Elevations and Flow Direction

The surface of the groundwater in monitoring wells MW1, MW2, MW3, MW4, MW8 and MW9 is below actual mean sea level. The groundwater surface in wells MW3, MW4 and MW5 at this site has been consistently below sea level since measurements were first taken in May of 1990. Wells MW8 and MW9 are also developing a trend towards the groundwater surface being below actual mean sea level. The groundwater surface in well MW6 has been reported as below actual mean sea level in six of eighteen measurements since October of 1990 the other twelve measurements indicate that the surface of the groundwater to be above mean sea level. There is not sufficient data to predict whether or not the groundwater elevations in well MW7 will follow those in MW6, however; given the locations and similarity of subsurface conditions it is reasonable to assume that the groundwater elevations in MW7 will generally follow those in MW6.

It is also reasonable to assume that, given the amount of rainfall this past winter, that these elevations and flow direction probably represent a more normal hydrogeological cycle than has been seen at the site since October of 1990 when data collection began in wells MW3, MW4, MW5 and MW6. These data also support the previously reported contention that wells MW3 is upgradient from the previous diesel UST location and well MW1 and MW4 is both upgradient and cross gradient from the previous diesel UST location and well MW1.

Groundwater elevation contours, generated by Golden Software's Surfer Program, Version 4, are presented on **Figure 4**.

Product Recovery

Prior to July of 1994 product from wells MW1 and MW2 was recovered by bailing with a 3-inch clear bailer. Product was measured directly by decanting into a graduated measuring glass and recording actual amounts of product. **Table 5** presents the total product recovered by year.

In July of 1994, because the amount of floating product in these wells had diminished significantly and bailing was no longer considered effective or efficient, a passive Soakease Product Recovery system was installed in wells MW1 and MW2. This system uses an absorbent sock that selectively retains hydrocarbons to remove the product. Each 4-inch soakease sock, when fully saturated, will contain about 4 quarts of product. The systems are checked weekly by CASS employees and the socks changed when they appear to be fully saturated. While this method is not as accurate as bailing and measuring, it is an effective and efficient method of recovering product from low yielding wells. **Table 6** presents the product recovery data by month since January, 1995.

CASS 'Field Notes' are included as **Appendix B**.

RECOMMENDATIONS

Reduce the sampling and monitoring frequency for monitoring wells MW5, MW7, MW8 and MW9 to once per year (annually).

Reduce the sampling and monitoring for monitoring wells MW3 and MW4 to semi-annually (two times per year)

Continue sampling and monitoring of monitoring well MW6 on a quarterly basis for three additional quarters.

5. The sample containers were labeled and placed into iced storage for transport to McCampbell Analytical Inc., Pacheco, CA to be analyzed for Total Petroleum Hydrocarbons as Gasoline and Diesel (TPHG and TPHD), Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX).
6. All sampling equipment was pre-cleaned before use with a liquinox soap solution followed by a tap water rinse and then a distilled water rinse.

FINDINGS

Current groundwater monitoring reports are presented in **Table 1** and a summary of past groundwater analytical results is presented in **Table 2**. The certified laboratory analytical reports for the most recent sampling event are included as **Appendix A**.

Current groundwater elevation data is presented in **Table 3** and a summary of past groundwater elevation data is presented in **Table 4**. The surface of the groundwater in monitoring wells MW1, MW2, MW3, MW4, MW8 and MW9 is below actual mean sea level.

No floating product was detected in any of the monitoring wells by the Keck Interface Probe on 13 April or 5 May 1995. Wells MW1 and MW2 were also checked on both dates by use of a clear disposable bailer and, although there is evidence of product on the inside of the well casing, only a slight sheen was detected in either of these wells.

DISCUSSION

Hydrocarbons in Groundwater

A review of groundwater analytical results indicates no detectable impacts in MW5, MW7, MW8 and MW9. TPHD was detected in MW3, MW4 and MW6 at 190 ppm, 460 ppb and 720 ppb respectively. TPHG was detected in MW6 at 300 ppb. Of the BTEX components only Xylene was detected in MW6 at 0.98 ppb.

Figure 3 presents Diesel contaminant contours generated by Golden Software's Surfer Program, Version 4. These data indicate a concentration gradient for Diesel from 720 ppb in MW6, to 460 ppb in MW4 to 190 ppb in MW3 to ND in MW9 that generally follows the groundwater flow across the site. The continued presence of TPHD in monitoring well MW6 remains unexplainable. This well is immediately downgradient from the location of the previous gasoline UST. One possible explanation for the diesel present in the groundwater in wells MW6, MW3 and MW4, which are located up-gradient and cross-gradient from the previous diesel UST, is that the source of this diesel is from an up-gradient source not located on CASS property.

Gasoline range hydrocarbons were detected only in MW6 and do not appear to be migrating along the groundwater flow.

These data indicate that monitoring wells MW3 and MW4 are up-gradient and cross-gradient respectively from the site of the previous diesel UST.

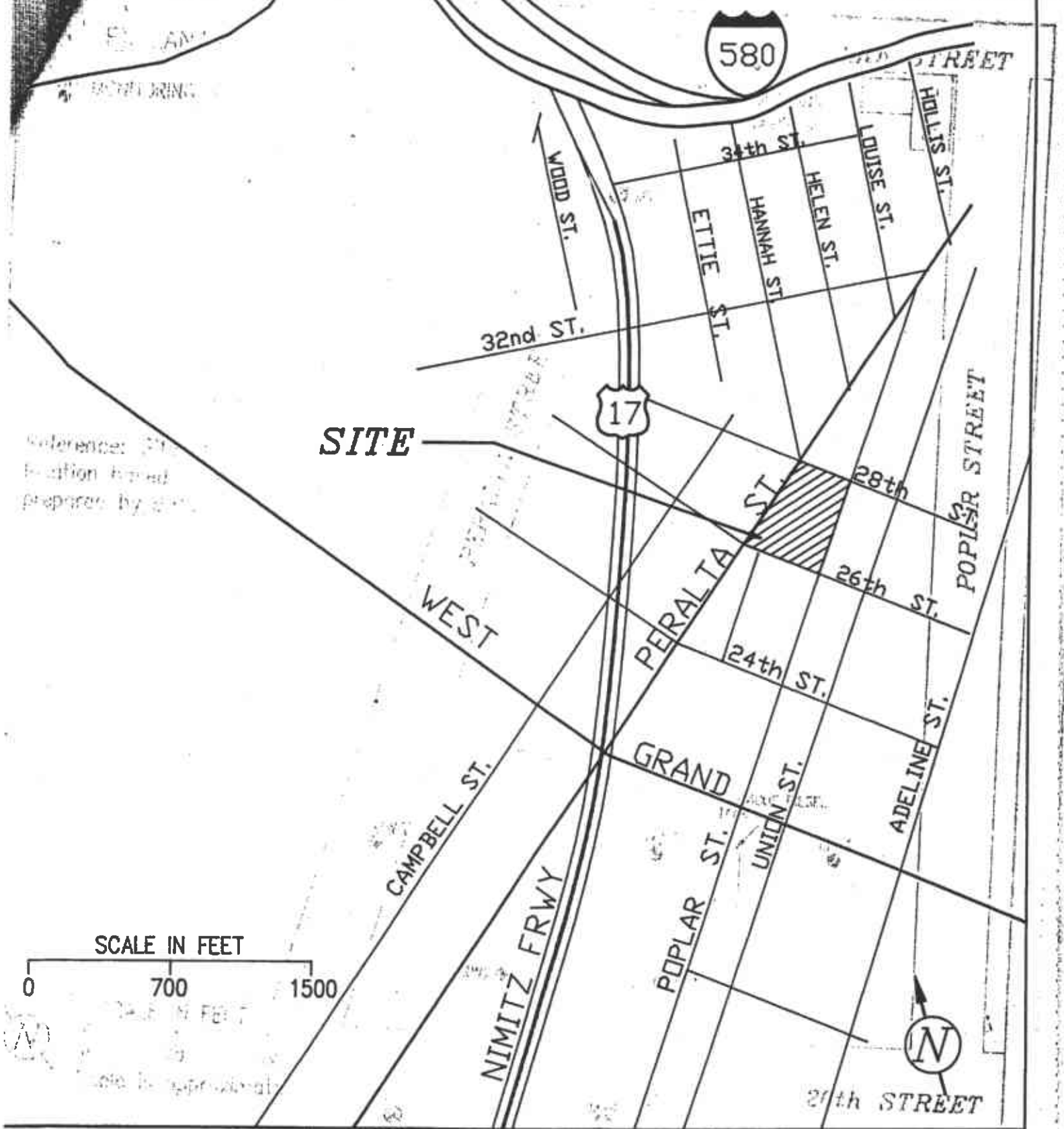
Analyze groundwater from monitoring wells MW3, MW4, MW5, MW7, MW8 and MW9 for Total Petroleum Hydrocarbons as Diesel.

Analyze groundwater from monitoring well MW6 for Total Petroleum Hydrocarbons as Diesel, Total Petroleum Hydrocarbons as Gasoline, Benzene, Toluene, Ethyl Benzene and Xylenes.

Continue the Soakease product recovery system operation.

John H. Sammons, Ph.D.

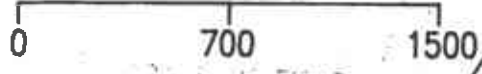
Marc W. Seeley, C.E.G



Reference: 21
 Location based
 prepared by 21

SITE

SCALE IN FEET



Title: SITE LOCATION MAP	Scale: AS SHOWN
Site: MONT CUSTOM ALLOY SCRAP SALES	Date: APR 1995
Address: CU 2730 PERALTA STREET, OAKLAND, CALIFORNIA	Date: MAY 1995 = 70'

John H. Sammons, Ph.D.

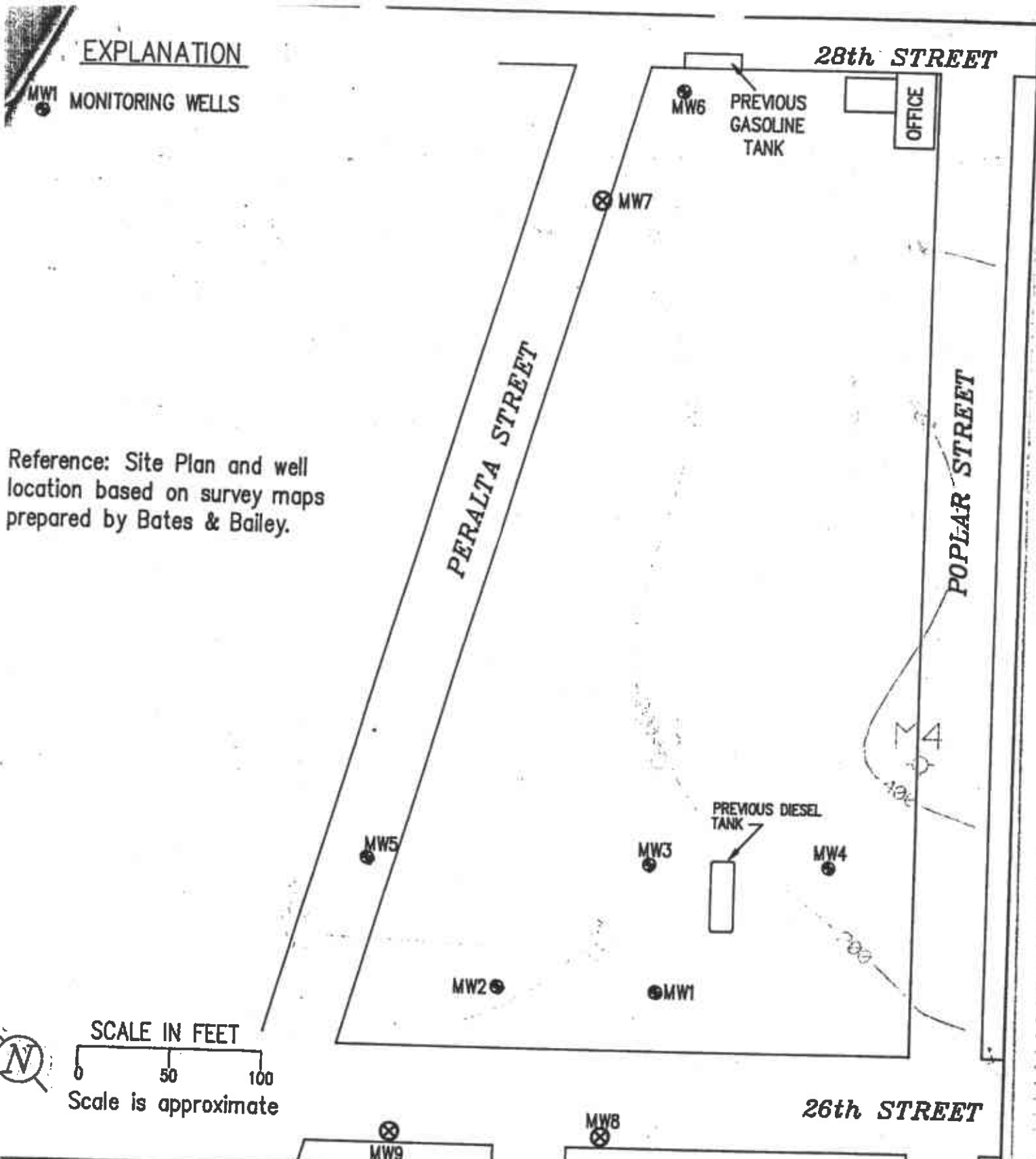
2011 Feliz Road Novato, CA 94945

Figure:
 Figure 1
 2

EXPLANATION

MW1 MONITORING WELLS

Reference: Site Plan and well location based on survey maps prepared by Bates & Bailey.



MONITORING WELL LOCATIONS
 CUSTOM ALLOY SCRAP SALES
 2730 PERALTA STREET, OAKLAND, CALIFORNIA

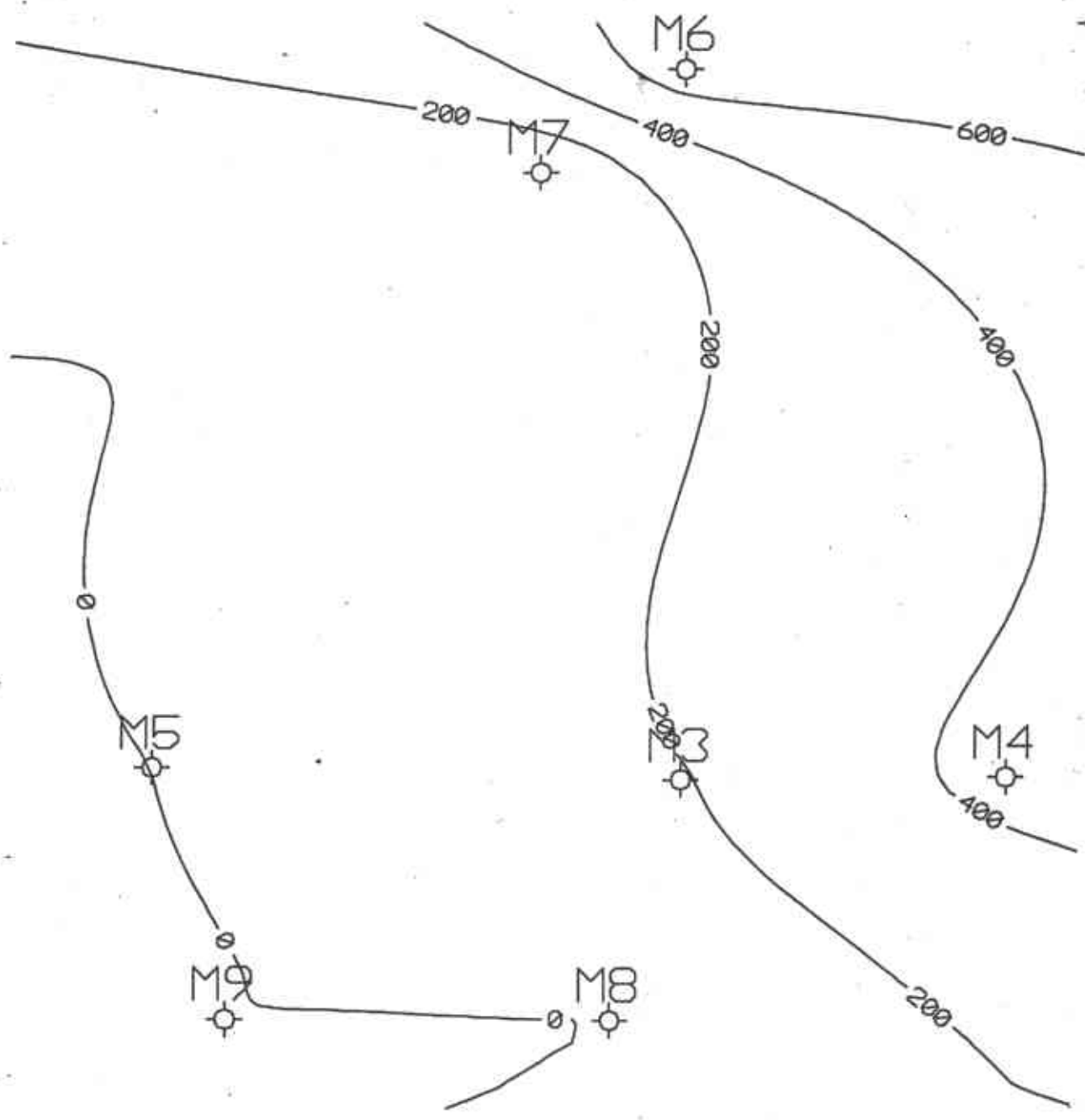
Scale: APPROX. 1" = 70'

Date: MAY 1995

John H. Sammons, Ph.D.
 2011 Feliz Road, Novato, CA 94945

Figure:

2



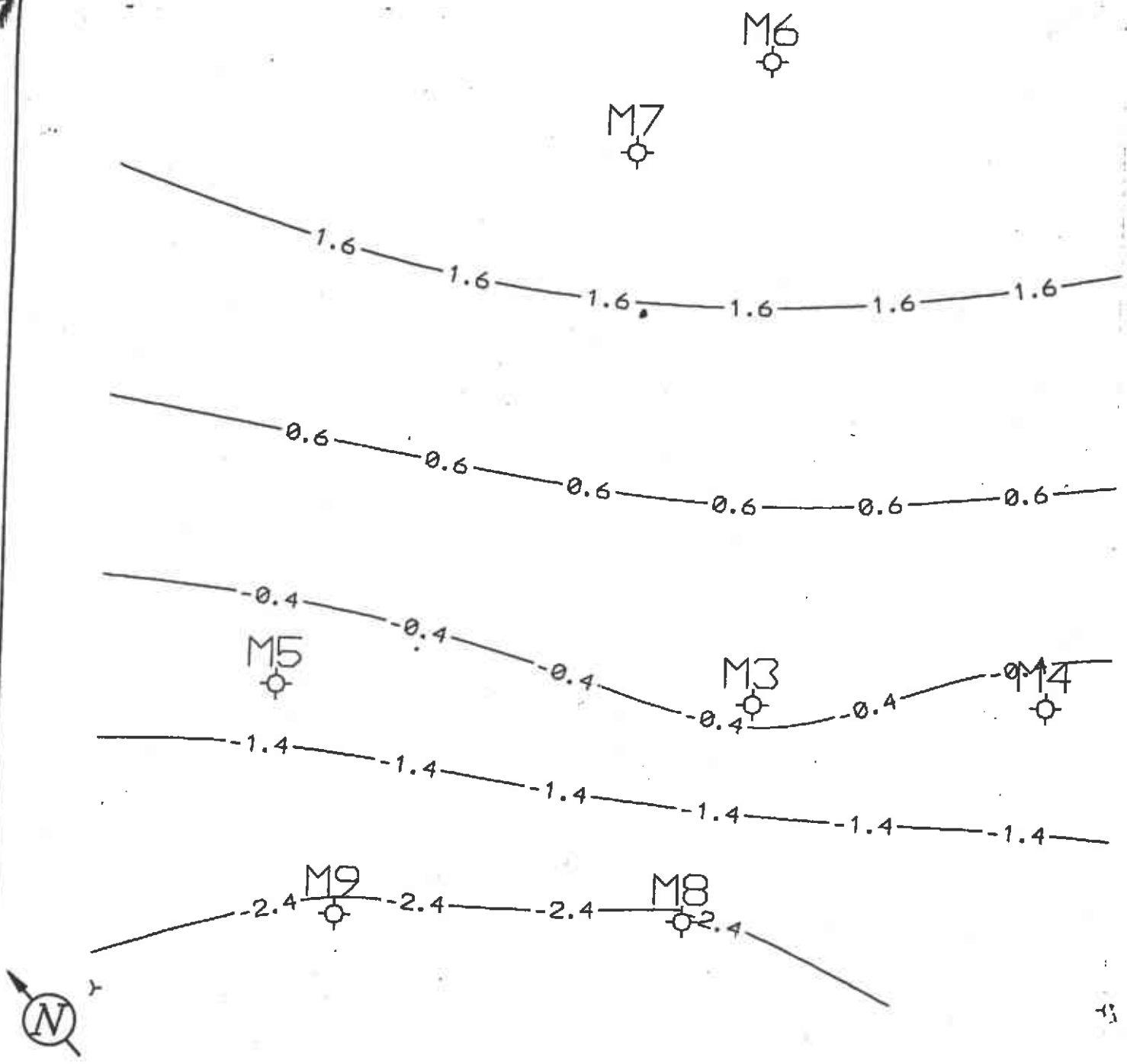
Title: DIESEL IN GROUNDWATER TOURS
Site: CUSTOM ALLOY SCRAP SALES
Address: 2730 PERALTA STREET, OAKLAND, CALIFORNIA

Scale:

Date: MAY 1995

John H. Sammons, Ph.D.
 2011 Feliz Road Novato, CA 94945

Figure:
3



Title: GROUNDWATER ELEVATION CONTOURS Site: CUSTOM ALLOY SCRAP SALES Address: 2730 PERALTA STREET, OAKLAND, CALIFORNIA	Scale:
	Date: MAY 1995

John H. Sammons, Ph.D.
 2011 Feliz Road Novato, CA 94945

Figure:
4

TABLE 1
 CURRENT GROUNDWATER ANALYTICAL DATA - PETROLEUM HYDROCARBONS
 CUSTOM ALLOY SCRAP SALES
 2730 Peralta Street
 Oakland, California

MAY 1995

WELL #	DATE	TPH DIESEL PPB	TPH GASOLINE PPB	BENZENE PPB	TOLUENE PPB	ETHYL BENZENE PPB	XYLENES PPB	DISSOLVED OXYGEN PPM
MW1 (1)	05/95	NT	NT	NT	NT	NT	NT	NT
MW2 (1)	05/95	NT	NT	NT	NT	NT	NT	NT
MW3	05/95	190	ND	ND	ND	ND	ND	2
MW4	05/95	460	ND	ND	ND	ND	ND	2
MW5	05/95	ND	ND	ND	ND	ND	ND	1
MW6	05/95	720	300	ND	ND	ND	0.98	1
MW7	05/95	ND	ND	ND	ND	ND	ND	2
MW8	05/95	ND	ND	ND	ND	ND	ND	2
MW9	05/95	ND	ND	ND	ND	ND	ND	1

Notes:

- Dissolved Oxygen measured in field by CHEMetrics Field Test Kit
- PPB = Parts per billion / micrograms per liter
- PPM = Parts per million / milligrams per liter
- ND = Constituent was not detected in this sample
- NA = Constituent was not analyzed in this sample
- NT = Well was not sampled

(1) Well contains or has contained Free Product

TABLE 2
 SUMMARY OF GROUNDWATER ANALYTICAL DATA - PETROLEUM HYDROCARBONS
 CUSTOM ALLOY SCRAP SALES
 2730 Paralta Street
 Oakland, California

WELL #	DATE	TPHd ppb	TPHg ppb	BENZENE ppb	TOLUENE ppb	ETHYLBENZENE ppb	XYLENES ppb
MW1 (1)	06/90	ND	ND	0.4	ND	1	0.7
	03/94	NA	NA	NA	NA	NA	NA
MW2 (2)	03/94	NA	NA	NA	NA	NA	NA
MW3	06/90	ND	ND	1.8	ND	NA	NA
	10/90	270	ND	0.9	ND	0.5	ND
	01/91	320	ND	2.1	ND	ND	1.8
	05/91	220	NA	3.3	ND	ND	ND
	08/91	ND	NA	8.6	ND	ND	ND
	12/91	70	ND	3.3	ND	ND	1
	05/92	1400	ND	2.2	ND	ND	1
	08/92	1900	ND	1.8	ND	ND	0.6
	08/93	100	ND	ND	ND	ND	ND
	03/94	1600	ND	ND	ND	ND	ND
	07/94	2000	ND	ND	ND	ND	ND
	05/95	190	ND	ND	ND	ND	ND
	MW4	10/90	350	ND	0.3	ND	ND
01/91		180	ND	ND	ND	ND	0.4
05/91		80	NA	ND	ND	ND	ND
08/91		130	NA	ND	ND	ND	ND
12/91		ND	ND	ND	ND	ND	ND
05/92		860	ND	1.3	ND	ND	ND
08/92		860	ND	ND	1.4	ND	ND
08/93		1100	ND	ND	ND	ND	ND
03/94		3100	ND	ND	ND	ND	ND
07/94		1900	ND	ND	ND	ND	ND
05/95		460	ND	ND	ND	ND	ND
MW5	10/90	ND	ND	ND	ND	ND	ND
	01/91	ND	ND	ND	ND	ND	ND
	05/91	ND	NA	ND	ND	ND	ND
	08/91	ND	NA	ND	ND	ND	ND
	12/91	ND	ND	ND	ND	ND	ND
	05/92	ND	ND	ND	ND	ND	ND
	08/92	ND	ND	ND	ND	ND	ND
	07/93	ND	ND	ND	ND	ND	ND
	03/94	ND	ND	ND	ND	ND	ND
	07/94	ND	ND	ND	ND	ND	ND
	05/95	ND	ND	ND	ND	ND	ND
MW6	10/90	800	220	4.9	4.6	0.9	4.8
	01/91	5300	1700	43	6	4.3	12
	05/91	5100	880	11	2.2	2.1	4.8
	08/91	26000	12000	12000	20000	2200	12000
	12/91	5200	1100	6.3	2.1	1.8	3.3
	05/92	13000	690	2.2	1.4	0.6	ND
	08/92	12000	1200	5.6	2.3	1.3	0.89
	07/93	2900	510	2	0.5	ND	0.9
	03/94	580	1900	0.8	2.9	0.7	ND
	07/94	4600	520	0.8	ND	ND	ND
	05/95	720	300	ND	ND	ND	0.88
MW7	05/95	ND	ND	ND	ND	ND	ND
MW8	05/95	ND	ND	ND	ND	ND	ND
MW9	05/95	ND	ND	ND	ND	ND	ND

Notes:
 PPB = Parts per billion/micrograms per liter
 ND = Constituent was not detected in this sample
 NA = Constituent was not analyzed in this sample

(1) Well contains Free Product
 (2) Well contains Free Product

TABLE 3
 CURRENT GROUNDWATER ELEVATION DATA
 CUSTOM ALLOY SCRAP SALES
 2730 Peralta Street
 Oakland, California

MAY 1995

	SURVEYED TOP OF CASING ELEVATION OAKLAND DATUM	ACTUAL TOP OF CASING ELEVATION ABOVE MEAN SEA LEVEL	MEASURED DEPTH TO GROUND WATER	GROUND WATER ELEVATION CALCULATED FROM OAKLAND DATUM	GROUND WATER ELEVATION CALCULATED AS ACTUAL ABOVE MEAN SEA LEVEL
MW1	5.64	8.64	10.35	-4.71	-1.71
MW2	4.19	7.19	10.25	-6.06	-3.06
MW3	5.84	8.84	8.95	-3.11	-0.11
MW4	5.40	8.40	9.15	-3.75	-0.75
MW5	3.82	6.82	7.85	-4.03	-1.03
MW6	6.06	9.06	6.45	-0.39	2.61
MW7	4.24	7.24	4.85	-0.61	2.39
MW8	3.74	6.74	9.25	-5.51	-2.51
MW9	3.78	6.78	9.28	-5.5	-2.5

NA = NOT AVAILABLE

GROUND WATER ELEVATIONS RELATIVE TO ACTUAL MEAN SEA LEVEL

* = ANOMOLOUS WATER LEVEL, PROBABLY DUE TO PRESSURE RELEASE WHEN WELL CAP WAS REMOVED

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA
 CUSTOM ALLOY SCRAP SALES
 2730 Peralta Street
 Oakland, California

DATE	MW3	MW4	MW5	MW6	MW7	MW8	MW9
5/18/90	-2.24	NA	NA	NA			
6/18/90	-1.16	NA	NA	NA			
10/30/90	-2.62	-2.06	-3.10	-1.32			
12/17/90	-2.26	-1.54	-2.69	0.24			
12/17/90	NA	-1.53	NA	0.26			
1/28/91	-2.15	-1.62	-2.61	-0.54			
1/28/91	-2.17	-1.61	-2.61	-0.58			
2/25/91	-1.69	-1.16	-2.46	0.22			
2/25/91	-1.67	-1.16	-2.43	0.25			
4/17/91	-0.79	-0.32	-1.82	NA			
5/2/91	-2.73	-0.86	-1.92	1.41			
6/19/91	-1.31	-1.12	-2.37	-0.16			
8/7/91	-1.90	-1.33	-2.47	-0.64			
8/13/91	-1.79	NA	NA	NA			
8/15/91	-2.01	-1.39	-2.61	NA			
9/6/91	-2.01	NA	NA	NA			
10/23/91	-2.44	-1.95	-2.65	NA			
12/11/91	-2.11	-1.70	-2.59	NA			
5/1/92	-1.36	-0.44	-2.07	1.21			
5/19/92	-1.47	-0.90	-2.79	0.22			
7/9/93	-1.77	-1.16	-2.58	0.22			
7/9/93	-0.04	-0.07	-0.19	2.89			
3/3/94	-0.04	-0.07	-2.43	2.89			
7/12/94	-1.94	-1.37	-2.68	0.02			
9/14/94	-	-	-	-	-1.96	-2.67	-3.03
11/3/94	-2.57	-2.03	-3.18	-0.97	*-3.61	-2.79	-3.35
5/5/95	-0.11	-0.75	-1.03	2.61	2.39	-2.51	-2.51

NA = NOT AVAILABLE

GROUND WATER ELEVATIONS RELATIVE TO ACTUAL MEAN SEA LEVEL

* = ANOMOLOUS WATER LEVEL, PROBABLY DUE TO PRESSURE RELEASE WHEN WELL CAP WAS REMOVED

TABLE 5

MONTHLY PRODUCT RECOVERY DATA, 1995
 GALLONS RECOVERED AS OF 1 MAY 1995
 CUSTOM ALLOY SCRAP SALES
 2730 Peralta Street
 Oakland, California

WELL NO.	JAN	FEB	MAR	APR	MAY	TOTAL
MW1	2	2	*	*	*	4
MW2	7	2	1	2	12	24

* = WELL INACCESSIBLE

TABLE 6

PRODUCT RECOVERY DATA
 TOTAL GALLONS RECOVERED AS OF 1 MAY 1995
 CUSTOM ALLOY SCRAP SALES
 2730 Peralta Street
 Oakland, California

WELL NO.	1991	1992	1993	1994	1995	TOTAL
MW1	*	16.4	6.7	3.05	4	30.15
MW2	50	33.8	17.6	10.9	12	124.3

APPENDIX A

John H. Sammons, Ph.D. 2011 Feliz Road Novato, CA 94945	Client Project ID: CASS	Date Sampled: 04/13/95
		Date Received: 04/13/95
	Client Contact: John Sammons / Pat O'Brien	Date Extracted: 04/13-04/14/95
	Client P.O:	Date Analyzed: 04/13-04/14/95

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*
 EPA methods 5030, modified 8013, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
51641	MW5	W	ND	ND	ND	ND	ND	95
51642	MW6	W	300,c/d,g	ND	ND	ND	0.98	107
51643	MW7	W	ND	ND	ND	ND	ND	92
51644	MW8	W	ND	ND	ND	ND	ND	91
51645	MW9	W	ND	ND	ND	ND	ND	94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L
 # cluttered chromatogram; sample peak coelutes with surrogate peak
 + The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

John H. Sammons, Ph.D. 2011 Feliz Road Novato, CA 94945	Client Project ID: CASS	Date Sampled: 05/05/95
		Date Received: 05/05/95
	Client Contact: John Sammons / Pat O'Brien	Date Extracted: 05/06/95
	Client P.O:	Date Analyzed: 05/06/95

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(3030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
52308	MW3	W	ND	ND	ND	ND	ND	107
52309	MW4	W	ND	ND	ND	ND	ND	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

John H. Sammons, Ph.D. 2011 Feliz Road Novato, CA 94945	Client Project ID: CASS	Date Sampled: 05/05/95
		Date Received: 05/05/95
	Client Contact: John Sammons / Pat O'Brien	Date Extracted: 05/05/95
	Client P.O.:	Date Analyzed: 05/05/95

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *
 EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
52308	MW3	W	190,a	99
52309	MW4	W	460,a,h	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L		
	S	1.0 mg/kg		

* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/14-04/15/95

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	86.9	88.0	100	86.9	88.0	1.3
Benzene	0	9.1	9.4	10	91.0	94.0	3.2
Toluene	0	9	9.4	10	90.0	94.0	4.3
Ethyl Benzene	0	8.8	9.3	10	88.0	93.0	5.5
Xylenes	0	27.3	28.7	30	91.0	95.7	5.0
TPH (diesel)	0	142	142	150	95	95	0.3
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553

(510) 798-1020

FAX (510) 790-1022

REPORT TO: John Sammons BILL TO: CASS

COMPANY: John H Sammons, PhD

2011 Feliz Road

Novato CA - 94945

TELE: 415 892-8005 FAX #:

PROJECT NUMBER:

PROJECT LOCATION: Oakland PROJECT NAME: CASS

SAMPLER SIGNATURE: J Sammons

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 24 HOUR 48 HOUR 5 DAY

ANALYSIS REQUEST

ANALYSIS REQUEST	UNIT	COMMENTS
THP as Diesel (0015)		
Total Petroleum DI & Gravel (5520 EM/5520 3M)		
Total Petroleum Hydrocarbons (418.1)		
EPA 501/8010		
EPA 502/8020		
EPA 608/8080		
EPA 508/8080 - PCBs Only		
EPA 624/8240/8250		
EPA 625/8270		
CAN - 17 Metals		
EPA - Priority Pollutant Metals		
LEAD (7240/7421/239.2/6010)		
ORGANIC LEAD		
REI		

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHODS PRESERVED							
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	OTHER					
mw5	Oakland	4/13/95	1000	4		✓												
mw6	Oakland	4/13/95	1030	4		✓												
mw7	Oakland	4/13/95	1115	4		✓												
mw8	Oakland	4/13/95	1120	4		✓												
mw9	Oakland	4/13/95	1215	4		✓												

51641
51642
51643
51644
51645

DISMISSED BY: [Signature]
DISMISSED BY: [Signature]
DISMISSED BY: [Signature]

DATE: 4/13/95 TIME: 1405
DATE: 4/13/95 TIME: 1545
DATE: 4/13/95 TIME: 1640

RECEIVED BY: [Signature]
RECEIVED BY: [Signature]
RECEIVED BY LABORATORY: [Signature]

REMARKS:
ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

PRESERVATIVE APPROPRIATE ✓
VOIS/D&G/VEYS/OTHER

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/04-05/05/95

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	99.5	98.4	100	99.5	98.4	1.1
Benzene	0	9.7	9.8	10	97.0	98.0	1.0
Toluene	0	10	10.1	10	100.0	101.0	1.0
Ethyl Benzene	0	10.1	10.2	10	101.0	102.0	1.0
Xylenes	0	31.1	31.6	30	103.7	105.3	1.6
TPH (diesel)	0	153	163	150	102	109	6.0
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/06-05/07/95

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	99.5	97.9	100	99.5	97.9	1.7
Benzene	0	10.5	10.4	10	105.0	104.0	1.0
Toluene	0	10.3	10.4	10	103.0	104.0	1.0
Ethyl Benzene	0	10.2	10.2	10	102.0	102.0	0.0
Xylenes	0	32.8	32.8	30	109.3	109.3	0.0
TPH (diesel)	0	150	150	150	100	100	0.1
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$

$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$

APPENDIX B

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I.T.P (In front of Diesel Tanks)

DATE	WELL ID	PRODUCT THICKNESS	% SATURATED	CHANGED
7/19/94	#2			YES
7/21/94	#2			YES
7/25/94	#2			YES
7/28/94	#2	25	50	NO
8/2/94	#2	26	75	NO
8/4/94	#2	28	100	YES
8/9/94	#2	23	40	NO
8/11/94	#2	22	75	NO
8/15/94	#2	30	100	YES
8/18/94	#2	25	50	NO
8/22/94	#2	30	100	YES
9-15-94	#2	25	100	YES
9-22-94	#2	30	30-40	NO
9-27	#2	25	30	NO
10-5	#2	25	60	NO
10-12	#2	25	75	NO
10-20	#2	45	100	CHANGE
10-31	#2	50	25	NO
11-4	#2	5	50	NO
11-10	#2		100%	CHANGE
11-17	#2		50	
11-27	#		75	
12-4	#2		100	CHANGE
12-12	#2		50	
12-19	#2		75	
12-20	#2		100	CHANGE
1-5	#2		100	CHANGE
1-3	#2		100	CHANGE
1-10	#2		100	CHANGE
1-14	#2		100 CHANGE	CHANGE
1-20	#2		100	CHANGE
1-27	#2		50%	NO
1-28	#2		75	NO
1-12	#2		100	CHANGE

Well
#2

IIP - FRONT OF DIESEL TANK -

DATE	WELL ID	PRODUCT THICKNESS	% SATURATED	CHANGED
1-20	#2		75 75	NO
1-27	#2		100	YES
2-4	#2		100%	YES
2-14	#2		100	YES
2-27	#2		25%	NO
3-1	#2		50	NO
3-10	#2		75	NO
3-17	#2		100	YES
3-21	#2		75	NO
4-4	#2		100	YES
4-13	#2		75	
4-20	#2		100	YES
4-28	#2		25	YES NO

C

C

#7

Baker (Right side of Baker)

DATE	WELL ID	PRODUCT THICKNESS	% SATURATED	CHANGED
7/19/94	#1			yes
7/21/94	#1			yes
7/25/94	#1			yes
7/28/94	#1		10	no
8/2/94	#1		10	no
8/4/94	#1		15	no
8/9/94	#1		25	no
8/11/94	#1		25	no
8/15/94	#1		30	no
9-15-94	#1		25-30	no
9-22-94	#1		25-30	no
9-27	#1		30	no
10-5	#1		35-40	no
10-12	#1		50	no
10-20	#1		50	no
10-31	#1		70%	no
10-4	#1		100%	change yes
11-4	#1		100%	change no
11-10	#1		50	no
11-17	#1		60	no
11-27	#1		70	no
12-1	#1		100 - change	yes
12-20	#1		70%	no
1-2	#1		100	yes
1-10	#1		50%	no
1-14	#1		100	yes
1-20	#1		70%	no
2-7	#1		100	change
2-15	#1		70%	no
2-27	#1		100	change
3-1	#1		25%	no
3-10	#1		50%	no
3-19	#1			
3-21	#1			

UNABLE TO CHECK WELLS BLOCKED

APPENDIX A

John H. Sammons, Ph.D. 2011 Feliz Road Novato, CA 94945	Client Project ID: CASS	Date Sampled: 12/27/95
		Date Received: 12/29/95
	Client Contact: John Sammons	Date Extracted: 12/29/95
	Client P.O:	Date Analyzed: 12/29/95

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWOCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
59966	MW6	W	490,g,d,h	ND	ND	ND	1.1	93
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L.
 # cluttered chromatogram; sample peak coelutes with surrogate peak
 + The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

John H. Sammons, Ph.D. 2011 Feliz Road Novato, CA 94945	Client Project ID: CASS	Date Sampled: 12/27/95
		Date Received: 12/29/95
	Client Contact: John Sammons	Date Extracted: 12/29/95
	Client P.O:	Date Analyzed: 12/30/95

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
59966	MW6	W	14,000,a,h	103
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L		
	S	1.0 mg/kg		

* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 12/29/95-12/30/95

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		RPD
	Sample (#60280)	MS	MSD		MS	MSD	
TPH (gas)	0.0	101.7	109.2	100	102	109	7.2
Benzene	0	9.60	9.00	10	96.0	90.0	6.5
Toluene	0	9.10	9.00	10	91.0	90.0	1.1
Ethyl Benzene	0	9.70	9.40	10	97.0	94.0	3.1
Xylenes	0	31.40	29.90	30	104.7	99.7	4.9
TPH (diesel)	0	154	152	150	103	102	1.0
TRPH (oil & grease)	0	20200	21800	23700	85	92	7.6

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553

(510) 798-1820

FAX (510) 798-1822

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 24 HOUR 48 HOUR 5 DAY

5536 12/13

REPORT TO: *John Sammons* BILL TO: *Pat O'Brien*

COMPANY: *John H. Sammons, P.L.C.* *CASS*
2011 Feliz Road *2730 Penalta St.*

Novato, CA - 94945 *Dakland, CA - 94601*

TELE: *415/8928005* FAX: *CA 11*

PROJECT NUMBER: PROJECT NAME: *CASS*

PROJECT LOCATION: *Oakland, CA.* SAMPLER SIGNATURE: *[Signature]*

ANALYSIS REQUEST

OTHER

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED																						
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO ₃	OTHER	BTEX & TPH as Gasoline (602/8020 & 8015) TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 CEF/5521 BAF)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 621/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7246/7421/239.2/6010)	ORGANIC LEAD	REI						
MU6	On-site	11/27	1130	3	1A and 2A	X					X		X																				

COMMENTS

59966

RELINQUISHED BY: <i>[Signature]</i>	DATE: <i>12/27/95</i>	TIME: <i>1120</i>	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY: <i>R. Moline</i>	DATE: <i>12/28</i>	TIME: <i>1100</i>	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY: <i>[Signature]</i>	DATE: <i>12/29/95</i>	TIME: <i>8:55</i>	RECEIVED BY LABORATORY: <i>[Signature]</i>

REMARKS:
ICE?
GOOD CONDITION
HEAD SPACE ABSENT
PRESERVATIVE
APPROPRIATE CONTAINERS
VOAS O&G METALS OTHER