

ENVIRONMENTAL
PROTECTION

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MARK BORSUK
Attorney at Law
1626 Vallejo Street
San Francisco, CA 94123-5116
(415) 922-4740
FAX 922-1485
Internet: mborsuk@ix.netcom.com

February 19, 2000

Mr. Thomas Peacock
Supervising HMS, LOP
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335
tpeacock@co.alameda.ca.us

SUBJECT: IVQ'99 Monitoring Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Peacock:

Attached is the IVQ'99 groundwater monitoring data for the above site. If you have a question, please contact me.

Sincerely yours,



Mark Borsuk

BLAINE
TECH SERVICES INC.



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

February 14, 2000

Mark Borsuk
1626 Vallejo Street
San Francisco, CA 94123-5116

Site:
1432 Harrison Street
Oakland, California

Date:
December 23, 1999

GROUNDWATER SAMPLING REPORT 991223-Y-2

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results, or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site are presented in the TABLE OF WELL MONITORING DATA. This information was collected during our inspection and sample collection. Measurements include the total depth of the well and the depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, turbidity, and temperature readings were obtained during sample collection.

STANDARD PRACTICES

Sampling Equipment

Samples were collected using disposable bailers.

Bailers: A bailer, in its simplest form, is a hollow tube which has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up and out of the well.

Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons and/or solvents are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near-surface liquids, in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of polyethylene, Teflon, or stainless steel, and is used as an evacuation and/or sampling device. Disposable bailers are made of polyethylene plastic, decontaminated by the manufacturer, individually packaged for one-time only use, and are inexpensive. Teflon and stainless steel bailers are relatively easy to clean and are considered reusable with proper decontamination.

Because bailers are manually operated, variations in operator technique may have a greater influence on performance than would be found when using more automated sampling equipment. Also, in cases where fuel hydrocarbons are involved the bailer may include near-surface contaminants that are not representative of water located deeper in the well.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow a non-purge sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards for no purge sampling and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846 and T.E.G.D. which is published separately.

Sample Containers

Sample containers are supplied by the laboratory performing the analyses.

Sample Handling Procedures

Following collection, samples are promptly placed in an ice chest containing ice or an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days, as jobs and projects often do.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date and signature of person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were analyzed at Sequoia Analytical in Morgan Hill, California. Sequoia is certified by the California Department of Health Services under the Environmental Laboratory Accreditation Program (ELAP), and is listed as ELAP #1210.

Personnel

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Reportage

Submission to the Regional Water Quality Control Board and the local implementing agency should include copies of the sampling report, the chain of custody and the certified analytical report issued by the Hazardous Materials Testing Laboratory.

The following addresses have been listed here for your convenience:

Water Quality Control Board
San Francisco Bay Region
2101 Webster Street
Suite 500
Oakland, CA 94612
ATTN: Chuck Headlee

Oakland Fire Prevention Bureau
One City Hall Plaza
Oakland, CA 94612
ATTN: Stanley Y. Chi

Please call if we can be of any further assistance.



William Jones

WRJ/pb

attachments: cumulative table of well monitoring data
certified professional report and gradient map
certified analytical report
chain of custody
field data sheets

cc: John Riggi
Cambria Environmental Technology, Inc.
1144 65th St., Suite C
Oakland, CA 94608

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-1											
12/21/94	34.95	15.42	19.53	--	180,000	41,000	64,000	3100	100,000	--	--
03/13/95	34.95	16.29	18.66	--	150,000	31,000	45,000	2500	17,000	--	--
06/27/95	34.95	16.75	18.20	--	71,000	17,000	18,000	1600	7700	--	--
07/07/95	34.95	16.60	18.35	Gauge Only	--	--	--	--	--	--	--
09/28/95	34.95	16.75	18.20	--	110,000	27,000	34,000	1700	14,000	--	--
12/20/95	34.95	14.99	19.96	--	120,000	33,000	43,000	2300	15,000	--	--
03/26/96	34.95	15.68	19.27	*	140,000	29,000	36,000	1900	13,000	ND	--
06/20/96	34.95	16.31	18.64	*	110,000	30,000	38,000	2200	13,000	ND	--
09/26/96	34.95	15.60	19.35	**	170,000	28,000	40,000	2200	15,000	ND	--
10/28/96	34.95	15.37	19.58	Gauge Only	--	--	--	--	--	--	--
12/12/96	34.95	15.27	19.68	*	110,000	36,000	47,000	2500	16,000	ND	--
03/31/97	34.95	16.15	18.80	*	160,000	24,000	39,000	1900	13,000	ND	--
06/27/97	34.95	15.69	19.26	*	130,000	25,000	36,000	2000	14,000	ND	--
09/09/97	34.95	15.25	19.70	*	99,000	22,000	27,000	1600	13,000	270	--
12/18/97	34.95	15.70	19.25	***	160,000	30,000	44,000	2200	15,000	ND	--
03/12/98	34.95	17.43	17.52	***	190,000	20,000	49,000	2500	18,000	ND	--
06/22/98	34.95	16.32	18.63	--	90,000	19,000	40,000	2100	16,000	--	--
09/18/98	34.95	16.35	18.60	--	190,000	29,000	48,000	2400	17,000	--	--
12/23/98	34.95	15.77	19.18	--	140,000+	24,000	44,000	2000	8200	--	--
03/29/99	34.95	16.43	18.52	--	181,000	22,200	40,100	1844	12,200	--	--
06/23/99	34.95	16.35	18.60	--	80,000	20,000	33,000	1600	11,000	--	--
09/24/99	34.95	15.90	19.05	--	117,000	15,100	20,700	1550	11,800	--	--
12/23/99	34.95	15.00	19.95	--	186,000	25,900	39,000	1990	12,400	--	--

* = MTBE results by EPA method 8020.

** = MTBE results by EPA method 8240.

*** = MTBE results by EPA method 8260.

+ = Chromatogram pattern indicates gas.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-2											
12/21/94	35.18	15.27	19.91	--	200,000	140,000	200,000	3500	22,000	--	--
03/13/95	35.18	16.03	19.15	--	500,000	9200	23,000	7000	36,000	--	--
06/27/95	35.18	16.44	18.74	--	120,000	23,000	30,000	2700	13,000	--	--
07/07/95	35.18	16.38	18.80	Gauge Only	--	--	--	--	--	--	--
09/28/95	35.18	15.88	19.30	--	110,000	23,000	29,000	2500	11,000	--	--
12/20/95	35.18	14.94	20.24	--	83,000	980	1800	2200	10,000	--	--
03/26/96	35.18	15.49	19.69	*	150,000	23,000	32,000	2800	12,000	ND	--
06/20/96	35.18	20.98	14.20	*	94,000	15,000	23,000	2400	12,000	ND	--
09/26/96	35.18	15.38	19.80	**	150,000	20,000	29,000	2800	12,000	ND	--
10/28/96	35.18	15.00	20.18	Gauge Only	--	--	--	--	--	--	--
12/12/96	35.18	15.01	20.17	*	58,000	3100	11,000	1700	8100	220	--
03/31/97	35.18	15.51	19.67	*	38,000	6000	7900	690	3300	ND	--
06/27/97	35.18	15.50	19.68	*	62,000	13,000	16,000	1300	6000	ND	--
09/09/97	35.18	14.98	20.20	***	81,000	16,000	18,000	1800	8600	ND	--
12/18/97	35.18	15.38	19.80	***	110,000	18,000	26,000	2200	9500	ND	--
03/12/98	35.18	17.11	18.07	***	120,000	16,000	26,000	2200	9400	ND	--
06/22/98	35.18	16.89	18.29	--	38,000	9800	9500	1500	6000	--	--
09/18/98	35.18	16.09	19.09	--	68,000	12,000	16,000	1400	5900	--	--
12/23/98	35.18	15.51	19.67	--	180,000+	16,000	22,000	2200	8300	--	--
03/29/99	35.18	16.21	18.97	--	16,600	1380	1920	373	1840	--	--
06/23/99	35.18	16.93	18.25	--	41,000	10,000	9400	1100	5000	--	--
09/24/99	35.18	15.58	19.60	--	40,600	4880	3490	1090	4560	--	--
12/23/99	35.18	14.97	20.21	--	61,900	6710	9320	1150	5360	--	--

* = MTBE results by EPA method 8020.

** = MTBE results by EPA method 8240.

*** = MTBE results by EPA method 8260.

+ = Chromatogram pattern indicates gas.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-3											
12/21/94	33.97	15.15	18.82	--	ND	ND	ND	ND	ND	--	ND
03/13/95	33.97	16.11	17.86	--	ND	ND	ND	ND	ND	--	ND
07/07/95	33.97	15.72	18.25	Gauge Only	--	--	--	--	--	--	--
09/28/95	33.97	15.97	18.00	--	--	--	--	--	--	--	--
12/20/95	33.97	15.23	18.74	--	--	--	--	--	--	--	--
03/26/96	33.97	15.72	18.25	--	--	--	--	--	--	--	--
06/20/96	33.97	15.62	18.35	--	--	--	--	--	--	--	--
09/26/96	33.97	14.85	19.12	--	--	--	--	--	--	--	--
10/28/96	33.97	14.86	19.11	--	--	--	--	--	--	--	--
12/12/96	33.97	15.36	18.61	--	--	--	--	--	--	--	--
03/31/97	33.97	15.62	18.35	--	--	--	--	--	--	--	--
06/27/97	33.97	15.16	18.81	--	--	--	--	--	--	--	--
09/09/97	33.97	14.79	19.18	--	--	--	--	--	--	--	--
12/18/97	33.97	15.33	18.64	--	--	--	--	--	--	--	--
03/12/98	33.97	16.41	17.56	--	--	--	--	--	--	--	--
06/22/98	33.97	15.33	18.64	--	--	--	--	--	--	--	--
09/18/98	33.97	15.64	18.33	--	--	--	--	--	--	--	--
12/23/98	33.97	15.37	18.60	--	--	--	--	--	--	--	--
03/29/99	33.97	16.12	17.85	--	--	--	--	--	--	--	--
06/23/99	33.97	15.30	18.67	--	--	--	--	--	--	--	--
09/24/99	33.97	15.33	18.64	--	--	--	--	--	--	--	--
12/23/99	33.97	14.65	19.32	--	--	--	--	--	--	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-4											
10/28/96	30.77	11.45	19.32	--	NA	NA	NA	NA	NA	NA	--
12/12/96	30.77	11.35	19.42	*	11,000	4200	410	420	260	32	--
03/31/97	30.77	12.10	18.67	*	ND	ND	ND	ND	ND	ND	--
06/27/97	30.77	11.69	19.08	*	160	49	1.2	ND	5.9	ND	--
09/09/97	30.77	11.44	19.33	*	7400	5000	410	230	470	33	--
12/18/97	30.77	11.60	19.17	***	710	170	8.0	ND	39	ND	--
03/12/98	30.77	13.09	17.68	***	1300	410	21	ND	57	ND	--
06/22/98	30.77	13.14	17.63	--	ND	ND	ND	ND	ND	--	--
09/18/98	30.77	12.19	18.58	--	ND	42	1.6	ND	4.8	--	--
12/23/98	30.77	11.76	19.01	--	1900	1000	76	50	120	--	--
03/29/99	30.77	12.42	18.35	--	ND	ND	ND	ND	ND	--	--
06/23/99	30.77	13.19	17.58	--	ND	ND	ND	ND	ND	--	--
09/24/99	30.77	11.72	19.05	--	9150	3270	131	34	537	--	--
12/23/99	30.77	11.36	19.41	--	12,200	5360	275	424	592	--	--
MW-5											
10/28/96	31.61	11.73	19.88	--	NA	NA	NA	NA	NA	NA	--
12/12/96	31.61	11.52	20.09	*	230	5.6	0.9	ND	0.9	3.6	--
03/31/97	31.61	12.37	19.24	*	90	3.1	ND	ND	ND	ND	--
06/27/97	31.61	12.45	19.16	*	ND	ND	ND	ND	ND	ND	--
09/09/97	31.61	11.68	19.93	*	ND	ND	ND	ND	ND	ND	--
12/18/97	31.61	11.84	19.77	***	ND	ND	ND	ND	ND	ND	--
03/12/98	31.61	11.84	19.77	*	79	2.3	ND	0.8	ND	ND	--
06/22/98	31.61	13.53	18.08	--	ND	ND	ND	ND	ND	--	--
09/18/98	31.61	12.49	19.12	--	ND	ND	ND	ND	ND	--	--
12/23/98	31.61	12.01	19.60	--	ND	0.83	0.85	ND	ND	--	--
03/29/99	31.61	12.73	18.88	--	ND	ND	ND	ND	ND	--	--
06/23/99	31.61	13.56	18.05	--	ND	ND	ND	ND	ND	--	--
09/24/99	31.61	12.00	19.61	--	ND	ND	ND	ND	ND	--	--
12/23/99	31.61	11.60	20.01	--	ND	ND	ND	ND	ND	--	--

* = MTBE results by EPA method 8020.

*** = MTBE results by EPA method 8260.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Motor Oil
MW-6											
10/28/96	32.89	12.87	20.02	--	NA	NA	NA	NA	NA	NA	--
12/12/96	32.89	12.71	20.18	*	ND	ND	ND	ND	ND	ND	--
03/31/97	32.89	13.08	19.81	Gauge Only	--	--	--	--	--	--	--
06/27/97	32.89	13.13	19.76	Gauge Only	--	--	--	--	--	--	--
09/09/97	32.89	12.83	20.06	*	ND	ND	ND	ND	ND	ND	--
12/18/97	32.89	12.99	19.90	--	ND	ND	ND	ND	ND	--	--
03/12/98	32.89	14.89	18.00	*	ND	ND	ND	ND	ND	ND	--
06/22/98	32.89	14.46	18.43	--	ND	ND	ND	ND	ND	--	--
09/18/98	32.89	13.79	19.10	--	ND	ND	ND	ND	ND	--	--
12/23/98	32.89	13.28	19.61	--	ND	ND	ND	ND	ND	--	--
03/29/99	32.89	13.97	18.92	--	ND	ND	ND	ND	ND	--	--
06/23/99	32.89	14.48	18.41	--	ND	ND	ND	ND	ND	--	--
09/24/99	32.89	13.28	19.61	--	ND	ND	ND	ND	ND	--	--
12/23/99	32.89	12.59	20.30	--	ND	ND	ND	ND	ND	--	--

* = MTBE results by EPA method 8020.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.

MTBE = Methyl-t-Butyl Ether

February 1, 2000

Billy Jones
Blaine Tech Services
1680 Rogers Avenue
San Jose, California 95112

Re: **Fourth Quarter 1999 Monitoring Report**
1432 Harrison Street
Oakland, California
Cambria Project #180-0214



Dear Mr. Jones:

As you requested, Cambria Environmental Technology, Inc. (Cambria) has summarized the results of the fourth quarter 1999 groundwater sampling at the above referenced site. Presented below are the fourth quarter 1999 activities and results and the anticipated first quarter 2000 activities.

FOURTH QUARTER 1999 ACTIVITIES AND RESULTS

Groundwater Sampling: On December 23, 1999, Blaine Tech Services (Blaine) gauged all site monitoring wells and collected groundwater samples from monitoring wells MW-1, MW-2, MW-4, MW-5, and MW-6. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015, and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. Analytical results are included as Attachment A. Groundwater elevations are shown on Figure 1.

Hydrocarbon Distribution in Groundwater: Consistent with historical data, groundwater analytical results for wells MW-1 and MW-2 suggest that hydrocarbon concentrations are highest in groundwater in the immediate vicinity of the former underground storage tanks. TPHg concentrations in wells MW-1 and MW-2 were 186,000 micrograms per liter ($\mu\text{g/L}$) and 61,900 $\mu\text{g/L}$, respectively. Concentrations in well MW-4 were higher this quarter than previous quarters; TPHg and benzene concentrations in MW-4 were 12,200 $\mu\text{g/L}$ and 5,360 $\mu\text{g/L}$, respectively. Site analytical data indicates that the extent of the hydrocarbon plume is well defined to the east of south of the site by perimeter wells MW-3 and MW-6. North of the site, however, hydrocarbons have been detected intermittently in monitoring well MW-4.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

System Design: Cambria has nearly completed preparation of a remediation system design package.

ANTICIPATED FIRST QUARTER 2000 ACTIVITIES

Groundwater Sampling: Cambria will gauge all site wells and collect groundwater samples from wells MW-1, MW-2, MW-4, MW-5, and MW-6. Groundwater samples will be analyzed for TPHg by Modified EPA Method 8015 and BTEX and MTBE by EPA Method 8020. Any samples containing MTBE will be confirmed by EPA Method 8260. Cambria will prepare a groundwater monitoring report summarizing the monitoring activities and results.



System Design: Cambria's system design package is nearly complete. Once specifications regarding adjacent utilities are received from the City of Oakland, Cambria will submit the design package for regulatory review.

CLOSING

We appreciate this opportunity to provide environmental consulting services to Blaine Tech Services. Please call if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Mark Erickson
Staff Engineer

David Elias, R.G.
Senior Geologist

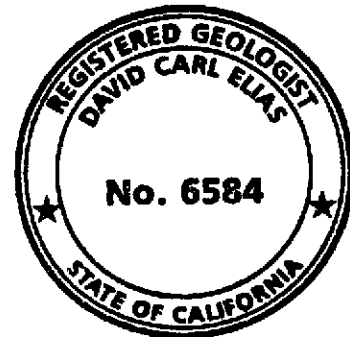
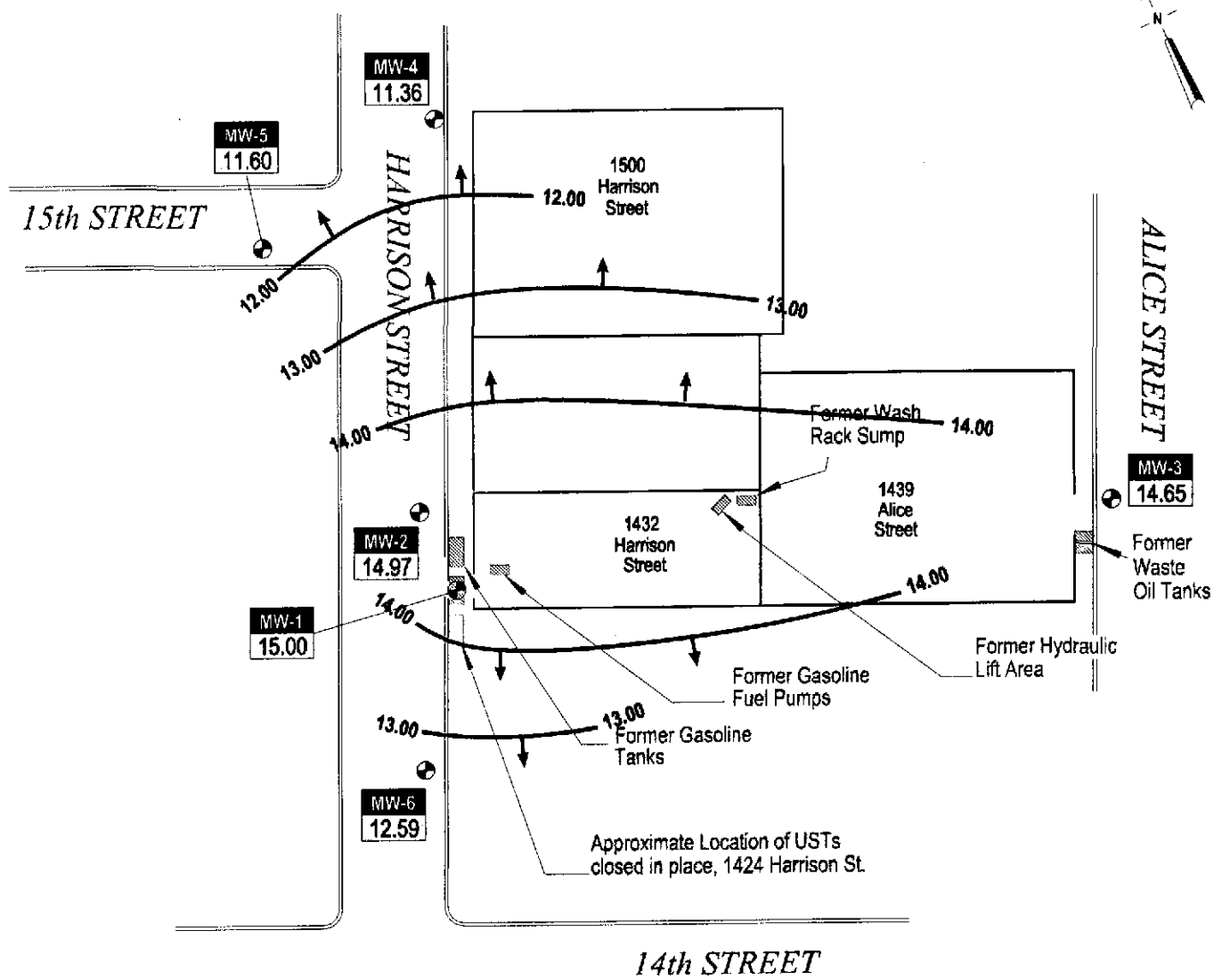
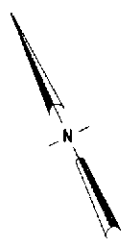


Figure: 1 - Groundwater Elevation Contours
Attachment: A - Laboratory Analytical Results



EXPLANATION

- Groundwater Monitoring Well
- Groundwater Elevation Contour, Feet Above msl, Dashed Where Inferred
- Groundwater Flow Direction
- Well Designation
- Groundwater Elevation, Feet Above Mean Sea Level (msl)



FIGURE
1

1432 Harrison Street

Oakland, California



C A M B R I A

Groundwater Elevation Contours

December 23, 1999

H:\SB-2004\AK-155\FIGURES\MOM99-MP.DWG

C A M B R I A



Attachment A

Laboratory Analytical Results



Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

January 10, 2000

W.R. Jones
Blaine Tech Services
1680 Rogers Ave
San Jose, CA 95112

RE: Mark Borsuk, 1432 Harrison St./M912890

Dear W.R. Jones

Enclosed are the results of analyses for sample(s) received by the laboratory on December 23, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210





Blaine Tech Services
1680 Rogers Ave
San Jose, CA 95112

Project: --
Project Number: Mark Borsuk, 1432 Harrison St.
Project Manager: W.R. Jones

Sampled: 12/23/99
Received: 12/23/99
Reported: 1/10/00

ANALYTICAL REPORT FOR M912890

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M912890-01	Water	12/23/99
MW-2	M912890-02	Water	12/23/99
MW-4	M912890-03	Water	12/23/99
MW-5	M912890-04	Water	12/23/99
MW-6	M912890-05	Water	12/23/99





Blaine Tech Services 1680 Rogers Ave San Jose, CA 95112	Project: -- Project Number: Mark Borsuk, 1432 Harrison St. Project Manager: W.R. Jones	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1				<u>M912890-01</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0010020	1/5/00	1/5/00		50000	186000	ug/l	1,D
Benzene	"	"	"		500	25900	"	D
Toluene	"	"	"		500	39000	"	D
Ethylbenzene	"	"	"		500	1990	"	D
Xylenes (total)	"	"	"		500	12400	"	D
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	60.0-140		115	%	
MW-2				<u>M912890-02</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0010020	1/5/00	1/5/00		10000	61900	ug/l	1,D
Benzene	"	"	"		100	6710	"	D
Toluene	"	"	"		100	9320	"	D
Ethylbenzene	"	"	"		100	1150	"	D
Xylenes (total)	"	"	"		100	5360	"	D
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	60.0-140		118	%	
MW-4				<u>M912890-03</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0010013	1/4/00	1/5/00		5000	12200	ug/l	1,D
Benzene	"	"	"		50.0	5360	"	D
Toluene	"	"	"		50.0	275	"	D
Ethylbenzene	"	"	"		50.0	424	"	D
Xylenes (total)	"	"	"		50.0	592	"	D
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	60.0-140		105	%	
MW-5				<u>M912890-04</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0010013	1/4/00	1/5/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	60.0-140		99.6	%	
MW-6				<u>M912890-05</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0010020	1/5/00	1/5/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	60.0-140		95.4	%	





Blaine Tech Services 1680 Rogers Ave San Jose, CA 95112	Project: -- Project Number: Mark Borsuk, 1432 Harrison St. Project Manager: W.R. Jones	Sampled: 12/23/99 Received: 12/23/99 Reported: 1/10/00
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**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0010013			Date Prepared: 1/4/00			Extraction Method: EPA 5030B [P/T]				
Blank			0010013-BLK1							
Purgeable Hydrocarbons as Gasoline	1/4/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.28	"	60.0-140	82.8			
LCS			0010013-BS1							
Benzene	1/4/00	10.0		9.53	ug/l	70.0-130	95.3			
Toluene	"	10.0		9.18	"	70.0-130	91.8			
Ethylbenzene	"	10.0		9.04	"	70.0-130	90.4			
Xylenes (total)	"	30.0		27.0	"	70.0-130	90.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.71	"	60.0-140	87.1			
LCS			0010013-BS2							
Purgeable Hydrocarbons as Gasoline	1/4/00	250		258	ug/l	70.0-130	103			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.66	"	60.0-140	96.6			
Matrix Spike			0010013-MS1 L912216-06							
Purgeable Hydrocarbons as Gasoline	1/4/00	250	ND	258	ug/l	60.0-140	103			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.9	"	60.0-140	119			
Matrix Spike Dup			0010013-MSD1 L912216-06							
Purgeable Hydrocarbons as Gasoline	1/4/00	250	ND	267	ug/l	60.0-140	107	25.0	3.81	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		12.1	"	60.0-140	121			
Batch: 0010020			Date Prepared: 1/5/00			Extraction Method: EPA 5030B [P/T]				
Blank			0010020-BLK1							
Purgeable Hydrocarbons as Gasoline	1/5/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.1	"	60.0-140	101			
LCS			0010020-BS1							
Benzene	1/5/00	10.0		8.85	ug/l	70.0-130	88.5			
Toluene	"	10.0		8.63	"	70.0-130	86.3			
Ethylbenzene	"	10.0		8.89	"	70.0-130	88.9			
Xylenes (total)	"	30.0		26.4	"	70.0-130	88.0			





Blaine Tech Services
1680 Rogers Ave
San Jose, CA 95112

Project: --
Project Number: Mark Borsuk, 1432 Harrison St.
Project Manager: W.R. Jones

Sampled: 12/23/99
Received: 12/23/99
Reported: 1/10/00

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD % Notes*
LCS (continued)		0010020-BS1							
Surrogate: <i>a,a,a-Trifluorotoluene</i>	1/5/00	10.0		10.2	ug/l	60.0-140	102		
LCS		0010020-BS2							
Purgeable Hydrocarbons as Gasoline	1/5/00	250		256	ug/l	70.0-130	102		
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		9.79	"	60.0-140	97.9		
Matrix Spike		0010020-MS1	M912890-05						
Benzene	1/5/00	10.0	ND	7.96	ug/l	60.0-140	79.6		
Toluene	"	10.0	ND	7.66	"	60.0-140	76.6		
Ethylbenzene	"	10.0	ND	7.95	"	60.0-140	79.5		
Xylenes (total)	"	30.0	ND	23.4	"	60.0-140	78.0		
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		9.07	"	60.0-140	90.7		
Matrix Spike Dup		0010020-MSD1	M912890-05						
Benzene	1/5/00	10.0	ND	7.90	ug/l	60.0-140	79.0	25.0	0.757
Toluene	"	10.0	ND	7.63	"	60.0-140	76.3	25.0	0.392
Ethylbenzene	"	10.0	ND	7.82	"	60.0-140	78.2	25.0	1.65
Xylenes (total)	"	30.0	ND	23.4	"	60.0-140	78.0	25.0	0
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		9.64	"	60.0-140	96.4		





Blaine Tech Services
1680 Rogers Ave
San Jose, CA 95112

Project: --
Project Number: Mark Borsuk, 1432 Harrison St.
Project Manager: W.R. Jones

Sampled: 12/23/99
Received: 12/23/99
Reported: 1/10/00

Notes and Definitions

#	Note
---	------

D	Data reported from a dilution.
---	--------------------------------

I	Chromatogram Pattern: Gasoline C6-C12
---	---------------------------------------

DET	Analyte DETECTED
-----	------------------

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

NR	Not Reported
----	--------------

dry	Sample results reported on a dry weight basis
-----	---

Recov.	Recovery
--------	----------

RPD	Relative Percent Difference
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P. 002
 TEL: 408 573 7771
 BLAINE TECH SERVICES, INC
 DEC. - 27 '99 (MON) 16:25

BLAINE

TECH SERVICES, INC.

1580 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB Sequoia DHS # _____
 ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
 EPA
 LIA
 OTHER
 RWQCB REGION _____

SPECIAL INSTRUCTIONS
 Invoice and Report to : Blaine Tech Services
 Attn: W.R. Jones
 M912890

CHAIN OF CUSTODY
 BTS # 991223-12
 CLIENT Mark Borsuk
 SITE 1432 Harrison St.
Oakland, CA

SAMPLE I.D.	DATE	TIME	MATRIX		CONTAINERS	C = COMPOSITE ALL CONTAINERS	TPH - Gas (8015)	BTEX (8020)	MTE	CANCER	DATE	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			S-SOIL	W-H ₂ O											
MW-1	12-28-99	1149	W		3		X	X	X			b1			
MW-2		1103					X	X	X			b2			
MW-4		1116					X	X	X			b3			
MW-5		1100					X	X	X			b4			
MW-6		1045					X	X	X			b5			
TS					3		X	X	X			CANCEL TS SAMPLE @ 12/27/99			

SAMPLING COMPLETED DATE 12/28/99 TIME 1200 SAMPLING PERFORMED BY _____ RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY [Signature] DATE 12/29/99 TIME 9:25 RECEIVED BY [Signature] DATE 12-23 TIME 14:30

RELEASED BY _____ DATE _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

RELEASED BY _____ DATE _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

SHIPPED VIA _____ DATE SENT _____ TIME SENT _____ COOLER # _____

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB Sequoia DHS# _____
 ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS
 SET BY CALIFORNIA DHS AND
 EPA RWQCB REGION _____
 LIA
 OTHER

CHAIN OF CUSTODY
 BTS # 991223-12
 CLIENT Mark Borsuk
 SITE 1432 Harrison St.
Oakland, CA

C - COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		TPH - Gas (8015)	BTEX (8020)	MTBE								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			SOIL W-H ₂ O	TOTAL															
MW-1	12-23-99	1149	W	3		X	X	X								01			
MW-2		1132				X	X	X								02			
MW-4		1116				X	X	X								03			
MW-5		1100				X	X	X								04			
MW-6		1045				X	X	X								05			
TB				2		X	X	X											

SPECIAL INSTRUCTIONS
 Invoice and Report to : Blaine Tech Services
 Attn: W.R. Jones

M912890

SAMPLING COMPLETED 12/23/99 DATE 12/23/99 TIME 1200 SAMPLING PERFORMED BY _____ RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY <u>[Signature]</u>	DATE <u>12/29/99</u>	TIME <u>9:25</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>12-23</u>	TIME <u>14:26</u>
RELEASED BY <u>[Signature]</u>	DATE _____	TIME _____	RECEIVED BY <u>[Signature]</u>	DATE <u>12-23</u>	TIME <u>16:10</u>
RELEASED BY _____	DATE _____	TIME _____	RECEIVED BY _____	DATE _____	TIME _____

SHIPPED VIA _____ DATE SENT _____ TIME SENT _____ COOLER # _____

BLAINE
TECH SERVICES INC

1880 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE



DATE 12/27/99

Total pages
including
cover sheet 2

TO ROD CHAN

M912890

OF SEDUOIA

FROM Billy K200

REMARKS: Please Note Location +
LOC.
991223-Y1

- ① * CANCEL MTBE ANALYSIS.
NOT REQUIRED.
- ② * CANCEL "TB" SAMPLES.
Please call if Any ?

THANKS.

WELL MONITORING DATA SHEET

Project #: 991223-12	Client: MARK BOSUK
Sampler: LEON G.	Start Date: 12-23-99
Well I.D.: mw-1	Well Diameter: 2 3 4 6 8 _____
Total Well Depth:	Depth to Water: .
Before: 25.04 After:	Before: 19.95 After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer**
- Extraction Port
- Dedicated Tubing
- Other: _____

_____ (Gals.) X _____	=	_____ Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1152	65.6	6.6	711		NO PURGE	

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: **1149** Sampling Date: **12-23-99**

Sample I.D.: **mw-1** Laboratory: **SEQUOIA**

Analyzed for: **TPH-G** **BTEX** ~~**MTBE**~~ TPH-D Other:

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 991223-42	Client: MARK BOBOK
Sampler: LEON G.	Start Date: 12-23-99
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 _____
Total Well Depth:	Depth to Water:
Before: 25.56 After:	Before: 20.21 After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- | | |
|----------------------|-----------------|
| Bailer | Waterra |
| Disposable Bailer | Peristaltic |
| Middleburg | Extraction Pump |
| Electric Submersible | Other _____ |

Sampling Method:

- | |
|--------------------------|
| Disposable Bailer |
| Extraction Port |
| Dedicated Tubing |
| Other: _____ |

_____ (Gals.) X _____	=	_____ Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1135	67.1	6.3	414		NO PURGE	

Did well dewater? Yes No Gallons actually evacuated: **—**

Sampling Time: **1132** Sampling Date: **12-23-99**

Sample I.D.: **MW-2** Laboratory: **SEQUOIA**

Analyzed for: **TPH-G** **BTEX** ~~MTBE~~ TPH-D Other:

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 991223-12	Client: MARK BORSUK
Sampler: LEON G.	Start Date: 12-23-99
Well I.D.: MW-4	Well Diameter: ② 3 4 6 8 _____
Total Well Depth:	Depth to Water:
Before: 24.75 After:	Before: 19.41 After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Disposable Bailer**
- Extraction Port
- Dedicated Tubing
- Other: _____

	(Gals.) X		=		Gals.
I Case Volume	Specified Volumes	Calculated Volume			

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1122	66.4	6.6	949		NO PURGE	

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: **1114** Sampling Date: **12-23-99**

Sample I.D.: **MW-4** Laboratory: **SEQUOIA**

Analyzed for: **TPH-G** **BTEX** ~~**MTBE**~~ **TPH-D** Other:

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: **TPH-G** **BTEX** **MTBE** **TPH-D** Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>991223-42</u>	Client: <u>MARK BOBOK</u>
Sampler: <u>LEON G.</u>	Start Date: <u>12-23-99</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth:	Depth to Water:
Before: <u>24.61</u> After:	Before: <u>20.01</u> After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- ~~Disposable Bailer~~
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- ~~Disposable Bailer~~
- Extraction Port
- Dedicated Tubing
- Other: _____

_____ (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1103</u>	<u>64.1</u>	<u>6.7</u>	<u>730</u>		<u>NO PURGE</u>	

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1100 Sampling Date: 12-23-99

Sample I.D.: MW-5 Laboratory: SEQUOIA

Analyzed for: TPH-G BTEX ~~MTBE~~ TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 991223-42	Client: MARK BORBAK
Sampler: LEON G.	Start Date: 12-23-99
Well I.D.: mw-6	Well Diameter: ② 3 4 6 8
Total Well Depth:	Depth to Water:
Before: 20.26 After:	Before: 20.30 After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- ~~Disposable Bailer~~
- Middleburg
- Electric Submersible

- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer**
- Extraction Port
- Dedicated Tubing

Other: _____

	(Gals.) X		=	Gals.
1 Case Volume	Specified Volumes	Calculated Volume		

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1046	61.8	6.6	1234		NO PURGE	

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: **1045** Sampling Date: **12-23-99**

Sample I.D.: **mw-6** Laboratory: **SEQUOIA**

Analyzed for: **TPH-G** **BTEX** ~~MTBE~~ TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV