

BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE SAN JOSE, CA 95133 (408) 995-5535 FAX (408) 293-8773

S+Id 3736

November 27, 1995

Chester Clark 537 Hidden Valley Road Grants Pass, OR 97527

ATTN: Bob Price

04613/14

Site: Clark's Home and Garden 23040 Clawiter Road Hayward, California

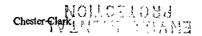
Date: October 9, 1995

GROUNDWATER SAMPLING REPORT 951009-V-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 MONITORING DATA. This information was collected during our inspection, well evacuation 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, and temperature readings were obtained during well evacuation and at the time of sample collection.

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STANDARD PRACTICES

Evacuation and Sampling Equipment

As shown in the TABLE OF MONITORING DATA, the wells at this site were evacuated according to a protocol requirement for the three case volumes. The wells were evacuated using bailers.

Samples were collected using 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 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 Teflon or stainless steel and is used as an evacuation and/or sampling device.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also where fuel hydrocarbons are involved, the bailer may include near surface contaminants that are not representative of water 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.

Effluent Materials

The evacuation process creates a volume of effluent water which must be contained. Blaine Tech Services, Inc. will place this water in appropriate containers of the client's choice or bring new 55 gallon DOT 17 E drums to the site, which are appropriate for the containment of the effluent materials. The determination of how to properly dispose of the effluent water must usually await the results of laboratory analyses of the sample collected from the groundwater

well. If that sample does not establish whether or not the effluent water is contaminated, or if effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards 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 deionized 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 delivered to Curtis & Tompkins Laboratory in Berkeley, California. Curtis & Tompkins Laboratory is certified by the California Department of Health Services as a Hazardous Materials Testing Laboratory, and is listed as DOHS HMTL #1459.

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, 5th Floor Oakland, CA 94612

ATTN: Dennis Mishek

Alameda Fire Dept. 300 Park Street Alameda, CA 94501

ATTN: Albert L. Smith

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/lp

attachments: table of well monitoring data

chain of custody

TABLE OF WELL MONITORING DATA

Date Sampled 04/21/95 07/07/95 10/09/95 Well Diameter (in.) 2 2 2 Total Well Depth (ft.) 23.65 23.53 23.58 Depth To Water (ft.) 13.39 14.08 15.03 Free Product (in.) NONE NONE NONE Reason If Not Sampled 1 Case Volume (gal.) 1.64 1.51 1.36 Did Well Dewater? NO NO NO Gallons Actually Evacuated 5.0 5.0 4.5 Purging Device BAILER BAILER BAILER Sampling Device BAILER BAILER BAILER
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Time 14:01 14:05 14:07 14:08 14:11 14:13 10:31 10:36 10:39
Temperature (Fahrenheit) 64.2 63.2 64.2 65.0 64.6 64.6 66.4 66.2 66.2
pH 7.8 7.4 7.4 7.2 7.0 7.6 7.2 7.2
Conductivity (micromhos/cm) 3800 1800 1800 800 800 1800 1600 1600
Nephelometric Turbidity Units >200 >200 >200 >200 >200 >200 >200 >20
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BTS Chain of Custody 950421-V-4 950707-V-3 951009-V-2
BTS Sample I.D. #1 #1 #1
Analysis TPH (GAS), BTEX TPH (GAS), BTEX TPH (GAS), BTEX
& TPH (DIESEL) & TPH (DIESEL)

SUMMARY O	F CAR RESULTS	in parts per billion unles	ss otherwise noted
OOHS HMTL Laboratory	CURTIS & TOMPKINS	CURTIS & TOMPKINS	CURTIS & TOMPKINS
Laboratory Sample I.D.	120767-001	121686-001	122969-001
TPH Gasoline	1500+	3100	870
Benzene	3.1	7.7	<0.5
Toluene	5.9	8.1	<0.5
Ethyl Benzene	45	54	12
Xylene Isomers	62	92	5.2
TPH Diesel	1900	3200	1300

In the interest of clarity, an addendum has been added to the TABLE which lists analytical results in such a way that our field observations are presented together with the analytical results. This addendum is entitled a SUMMARY OF CAR RESULTS. As indicated by the title, the source documents for these numbers are the laboratory's certified analytical reports. These certified analytical reports (CARs) are generated by the laboratory as the sole official documents in which they issue their findings. Any discrepancy between the CAR and a tabular or text presentation of analytical values must be decided in favor of the CAR on the grounds that the CAR is the authoritative legal document.

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