

MEGA GENERAL & ENVIRONMENTAL CONTRACTING INC.

June 27, 1989

Mr. Dennis Byrne
Alameda County Health Dept.
80 Swan Way, Room 200
Oakland, Ca 94607

RE: 5903 Christie Avenue, Emeryville

Dear Dennis

Attached are copies of the Geologist Report of the Well Drilling, Construction, and Sampling done at the above location. The results at this time are clean and we feel that we were able to remove the contamination problem with the earlier removal of soil. The geologist recommends periodic rechecks for possible contamination migration.

If additional sampling is required, Mega proposes to sample the well every three (3) months. A report will be submitted to the Health Dept. with sampling results within 15 days of each sampling. This process will continue for a period of one year including this current report. It should be noted at this time that Mr. Weatherford feels that he has complied fully with all requirements to this point and wishes to close the well at this point. If you have any further questions or comments, please call me at (415) 724-7143.

Sincerely



William L. Ridle

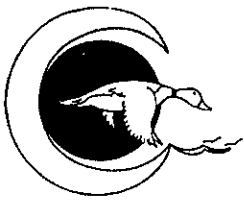
cc Greg Weatherford
Weatherford BMW
S.F. Bay Regional Water

NORTHERN
CALIFORNIA

P.O. Box 462
Pinole, CA 94564
(415) 223-5973
FAX (415) 223-3400

SOUTHERN
CALIFORNIA

7530 Rosedale Hwy.
P.O. Box 1891-93303
Bakersfield, CA 93308
(805) 589-7135



CROSBY & OVERTON, INC.

Environmental Management

8430 Amelia Street
Oakland, California 94621
FAX (415) 633-0759
(415) 633-0336 ■ (800) 821-0424

June 23, 1989

Mr. Bill Ridle
Mega General and Environmental Contracting, Inc.
P.O. Box 462
Pinole, CA 94564

RE: Groundwater Monitoring well at 5903 Christie Ave in
Emeryville, CA,

Dear Mr. Ridle:

Crosby & Overton, Inc. is pleased to submit the following report pertaining to the installation, development, and sampling of a groundwater monitoring well at 5903 Christie Ave in Emeryville, California (see map and site plans).

During the excavation and removal of two underground fuel tanks, it was discovered that at least one of the tanks had leaked or had been overfilled, contaminating soil in the vicinity. Pursuant to San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) guidelines, the installation of a groundwater monitor well was proposed.

FIELD WORK

On June 2, 1989, Crosby & Overton directed a subcontractor, Datum Exploration, in the drilling of the borehole, and subsequent installation and development of a monitoring well at the site.

A B-61 truck-mounted drill rig was used to advance 6 inch outer-diameter continuous flight hollow stem augers. A soil sample was obtained from 6.5' below ground surface (bgs). A California split spoon sampler, holding three clean, new 6" brass tubes was used for sample procurement. Immediately after extraction from the borehole, the middle brass tube ends were sealed by aluminum foil, plastic cap plugs, duct tape; then labelled and placed on blue ice.

Drilling operations encountered pea-gravel fill to about 5' bgs, clayey silts and sand to about 16' bgs, then clay to a final drilling depth of 21'. No evidence of hydrocarbon contamination could be detected during the drilling or from groundwater, first encountered at 7.5' bgs.

The proposed depth of the well was 25 feet bgs; however, the clay aquitard encountered from 16' bgs to 21' bgs necessitated restricting the well depth in order to prevent possible aquifer cross-contamination (see well construction diagram).

After completion, the well was developed by pumping more than 10 well volumes (45 gallons) into a holding drum. The well was then allowed to fully recharge, at which time aqueous samples were obtained by using a steam cleaned teflon bailer. Samples to be analyzed for volatile organics were secured in new 40 ml. VOA vials, with no headspace allowed. Other samples were secured in appropriate containers. Immediately after being secured in the containers, the samples were labelled, and placed on blue ice for transportation to SMC laboratory in Bakersfield, and Trace Analysis laboratory in Hayward (both are California State certified hazardous materials laboratories). Chain of custody documentation accompanied all samples.

ANALYTICAL RESULTS

The results of the analyses of both the soil and aqueous samples submitted indicated any hydrocarbon evidence to be below detection levels.

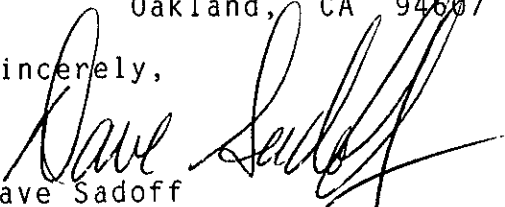
However, since the well was completed for monitoring, periodic re-checks for possible contamination migration are recommended.

Additional copies of this report are included herein, and it is recommended that one be forwarded to each of the individuals listed below:


- Mr. Scott Hugenburger
San Francisco Bay Regional Water
Quality Control Board
1111 Jackson Street, Sixth Floor
Oakland, CA 94607

- Mr. Dennis Byrne
Alameda County Department of Health
80 Swan Way, Room 200
Oakland, CA 94607

Sincerely,

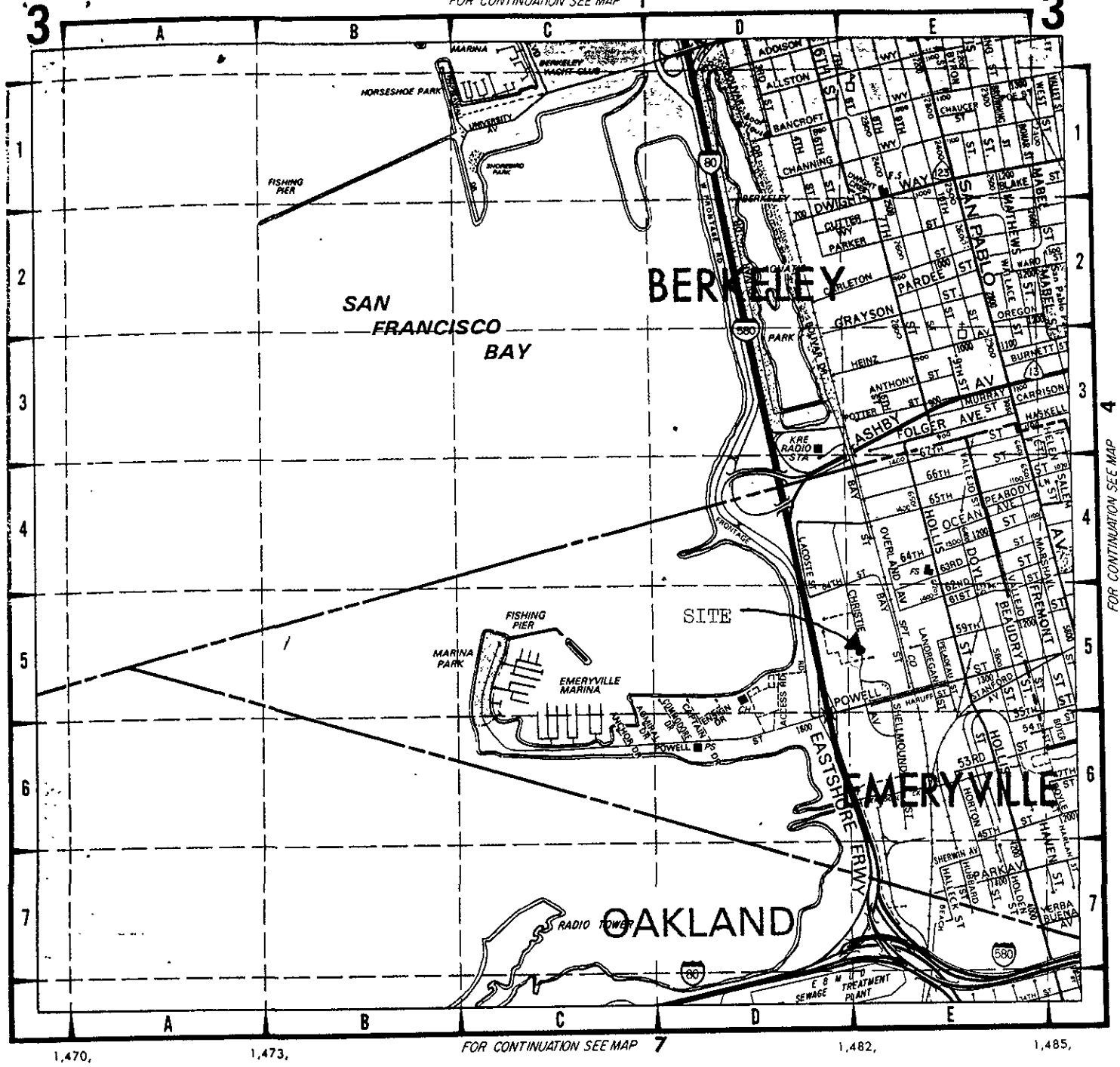


Dave Sadoff
Environmental Geologist



Roger Nielson
CA Registered Geologist #1801

Enclosure



FOR CONTINUATION SEE MAP 4

FIGURE 1. SITE MAP

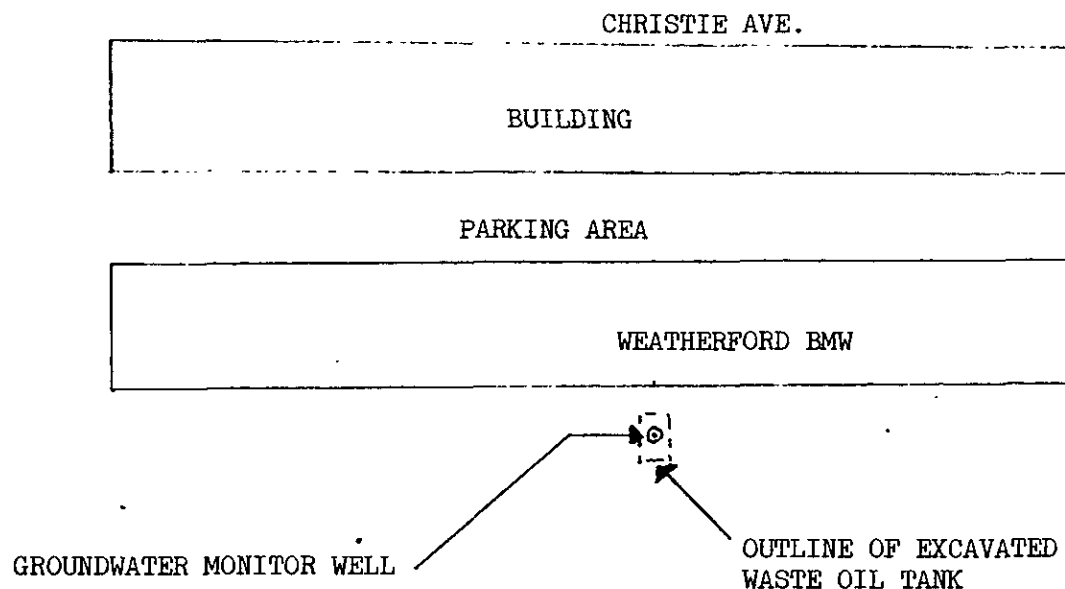
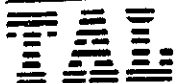


FIGURE 2. SITE PLAN

SCALE 1"=100'



DATE: 6/12/89
LOG NO.: 7464
DATE SAMPLED: 6/2/89
DATE RECEIVED: 6/6/89

CUSTOMER: Crosby and Overton, Inc.
REQUESTER: Dave Sadoff
PROJECT: No. 4538-S Mega/Weatherford

Sample Type: Soil

What method?

Method and Constituent	Units	S-1	
		Concentration	Detection Limit
Total Petroleum Hydrocarbons as Diesel	ug/kg	< 7,000	7,000 <i>7 ppm</i>
Standard Method 503E, Hydrocarbons: Oil and Grease	ug/kg	< 10,000	10,000 <i>10 ppm</i>

Dan Farah
Dan Farah, Ph.D.
Supervisory Chemist

DF:sm

Client Name: Mega General & Environmental Contracting, Inc.
 Address : 7530 Rosedale Hwy.
 Bakersfield, CA 93308

Date samples received : 6-05-89
 Date analysis completed: 6-08-89
 Date of report : 6-12-89

Matrix = water?

Laboratory No. 1332

Project: Weatherford BMW

Project No. 4538-5

RESULTS OF ANALYSIS

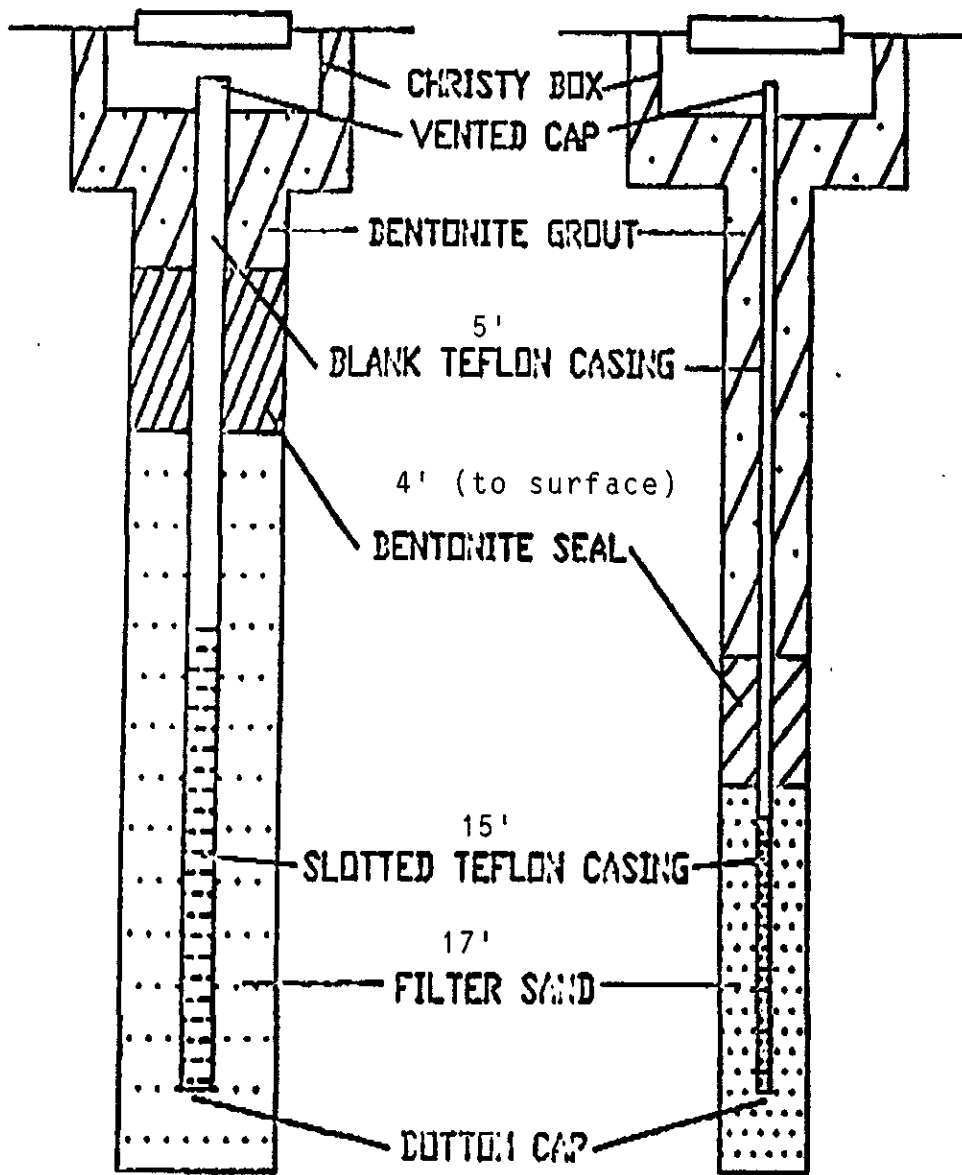
	ugm/L	MRL, ugm/L
#1332 ID: A-1	ND	0.3
Benzene	ND	0.3
Toluene	ND	0.3
Ethylbenzene	ND	0.3
p-Xylene	ND	0.3
m-Xylene	ND	0.3
o-Xylene	ND	0.3
Isopropylbenzene	ND	50
TPH (Gasoline)	ND	100
TPH (Diesel)	ND	100
	<i>ppm</i> mg/L	MRL, mg/L
Total Oil & Grease	ND ✓	10

Method of Analysis for BTX/TPH: California DOHS LUFT manual
 Method of Analysis for Total Oil & Grease: 413.1
 MRL = Minimum Reporting Level
 TPH = Total Petroleum Hydrocarbons
 ugm/L = micrograms per liter
 mg/L = milligrams per liter
 ND = Not detected

Stan Comer
 Stan Comer

MONITORING WELL

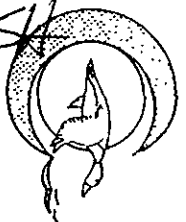
PIEZOMETER



Monitoring Well and Piezometer Construction Diagram

CHAIN OF CUSTODY RECORD

PROJ. NO. 45385		PROJECT NAME MEGA WEATHER FORECAST			P.O. NO. 7216		NO OF CONTAINERS	REMARKS IPH-D 503-E			
SAMPLERS: Signature		Send report attention to;									
STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION						
S-1	6/2	11:00		X	MW-1/6.5' bgs	X					3 DAY RUSH
Relinquished by: Signature		Date/Time		Received by: Signature		Date/Time		REMARKS: Company Name Address			
<i>[Signature]</i>		6/6/89 14:45		<i>[Signature]</i>							
Relinquished by: Signature		Date/Time		Received by: Signature		Date/Time					
Relinquished by: Signature		Date/Time		Received by: Signature		Date/Time					
<i>[Signature]</i>				<i>[Signature]</i>		6/8/89 14:45					



CROSBY & OVERTON
 Environmental Management Inc.
 8430 Amelia Street • Oakland, California 94621
 (415) 633-0336
 FAX (415) 633-6159

CHAIN OF CUSTODY RECORD

ROJ. NO. 4586S	PROJECT NAME M. 26A / WEATHERFORD BANK	P.O. NO.	NO OF CONTAINERS	REMARKS					
AMPLERS: Signature <i>Kevin Salby</i>		Send report attention to;							
TA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	TOG 1503-E TPH-D (LUFT) BTX E			
A-1	6/2			X	MW-1			6	X X X



CROSBY & OVERTON
 Environmental Management Inc.
 6430 Arctik Street • Oakland, California 94621
 (415) 633-0334
 FAX (415) 633-6359

Relinquished by: Signature <i>Kevin Salby</i>	Date/Time 6-2-89 13:50	Received by: Signature <i>Joel M... ..</i>	Date/Time 6-2-89 13:50
Relinquished by: Signature <i>Joel M... ..</i>	Date/Time 6-5-89 8:15am	Received by: Signature <i>Karla Henry</i>	Date/Time 6-5-89 8:15am
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time

REMARKS:

Company Name
Address