

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

September 14, 1994

STID 4400

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

REMEDIAL ACTION COMPLETION CERTIFICATE

Muriel Stockel
3461 Almosta Road
Placerville, CA 95667

Donald Jones
American Metal Properties
2201 Broadway. #M101
Oakland, CA 94612

RE: ESTATE OF MARTHA ARNOLD, 3234 CASTRO VALLEY BOULEVARD,
CASTRO VALLEY

Dear Ms. Stockel and Mr. Jones:

This letter confirms the completion of site investigation and remedial action for the 650 gallon underground storage tank at the referenced location.

Based on the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations.

Please contact Scott Seery at (510) 567-6783 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Rafat A. Shahid'.

Rafat A. Shahid
Director of Environmental Services

cc: Edgar B. Howell, Chief, Environmental Protection Division
Kevin Graves, RWQCB
Mike Harper, SWRCB

Files - SDS

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: September 13, 1994

Agency name: Alameda County-HazMat Address: 80 Swan Wy., Rm 200
City/State/Zip: Oakland Phone: (510) 271-4320
Responsible staff person: Scott Seery Title: Sr. Hazardous Mat. Spec.

II. CASE INFORMATION

Site facility name: Estate of Martha Arnold
Site facility address: 3234 Castro Valley Blvd., Castro Valley
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4400
URF filing date: 3/13/90 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Muriel Stockel	3461 Almosta Road Placerville, CA 95667	916/626-5102
Donald Jones American Metals Props.	2201 Broadway, #M101 Oakland, CA 94612	UNK

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	650	gasoline	removed	3/09/90

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: (probable) tank leak - holes noted in UST

Site characterization complete? YES

Date approved by oversight agency: 4/18/90

Monitoring Wells installed? YES Number: 5

Proper screened interval? YES

Highest GW depth below ground surface: 3.82' BG Lowest depth: 6.99' BG

Flow direction: SW

Most sensitive current use: parking lot / restaurant

Are drinking water wells affected? NO Aquifer name: NA

Is surface water affected? NO Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): NA

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Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
80 Swan Wy., Rm 200
Oakland CA 94621

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment</u> <u>of Disposal w/destination)</u>	<u>Date</u>
Tank	650 gallons	disposal - Erickson, Inc.	3/09/90
Piping	< 5 ft.	" "	
Free Product	NA		
Soil	105 - 126 yds ³	aeration followed by disposal at C & G Landfill Hayward, CA	8/20 - 8/21/90
Groundwater Barrels	NA		

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)
Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	4100	NA*	120	77
TPH (Diesel)	NA	"	NA	
Benzene	37	"	1.2	ND
Toluene	200	"	ND	"
Xylene	300	"	"	"
Ethylbenzene	68	"	"	"
Oil & Grease	NA	"	NA	NA
Heavy metals	"	"	"	"
Other	"	"	"	"

* confirmatory samples were not collected following overexcavation [SEE
Comments (Depth of Remediation, etc.) section, below]

Comments (Depth of Remediation, etc.):

After receipt of initial soil sample results, 12 exploratory borings were advanced to an approximate depth of between 8 and 20 feet below grade (BG) in order to define the lateral limits of soil contamination. Based on the results of soil sample analyses of samples collected from the 5 and 8 foot depths, the size of the excavation was expanded to the approximate dimensions of 65 x 45 x 9 feet (LxWxD). Lateral excavation limits were based upon the results of soil borings, i.e., excavation continued laterally until in proximity to contamination-defining borings. Hence, no confirmation soil samples were collected following overexcavation. GW was initially reached at approximately 8 feet BG, stabilizing at approximately 6 feet BG. Five (5) GW wells were subsequently installed at the excavation's perimeter. Approximately 105-126 yds³ of formerly-contaminated soil were transported to C & G Landfill following aeration.

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IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES
Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: NO - destruction will occur upon case closure


Number Decommissioned: NA (currently) Number Retained: 4

List enforcement actions taken: none

List enforcement actions rescinded: none

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Sr. Haz Mat Specialist
Signature:  Date: 9-14-94

Reviewed By
Name: Tom Peacock Title: Supervising Haz Mat Specialist
Signature:  Date: 9-14-94

Name: Jennifer Eberle Title: Haz Mat Specialist
Signature:  Date: 9-13-94

VI. RWQCB NOTIFICATION

Date Submitted to RB: 9-14-94
RWQCB Staff Name: Kevin Graves

RB Response: 
Title: San. Engineering Asso. Date: 9/15/94

VII. ADDITIONAL COMMENTS, DATA, ETC.

One (1) 650 gallon gasoline UST was removed from this former family farm/residence on 3/09/90. Upon removal the tank was observed to have numerous holes along the welded tank seams several millimeters in diameter. Floating product was observed on shallow, "apparent" ground water accumulating in the UST pit. (Note: water present in the pit was not

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perceived at the time of UST closure as "true" ground water because of the shallow depth at which it was initially encountered [5-6' BG]). As the excavation was expanded laterally and vertically, water was seen to seep into the excavation from the sidewalls at an approximate depth of 6.5'BG, accumulating in the pit's bottom, approximately 8'BG. Sidewall samples were collected from the NE and SW corners as close to the observed depth of the "seep" as possible, in addition to two (2) samples collected from below either end of the UST. Up to 4100 ppm TPH-G and 37 ppm benzene were found in these samples.

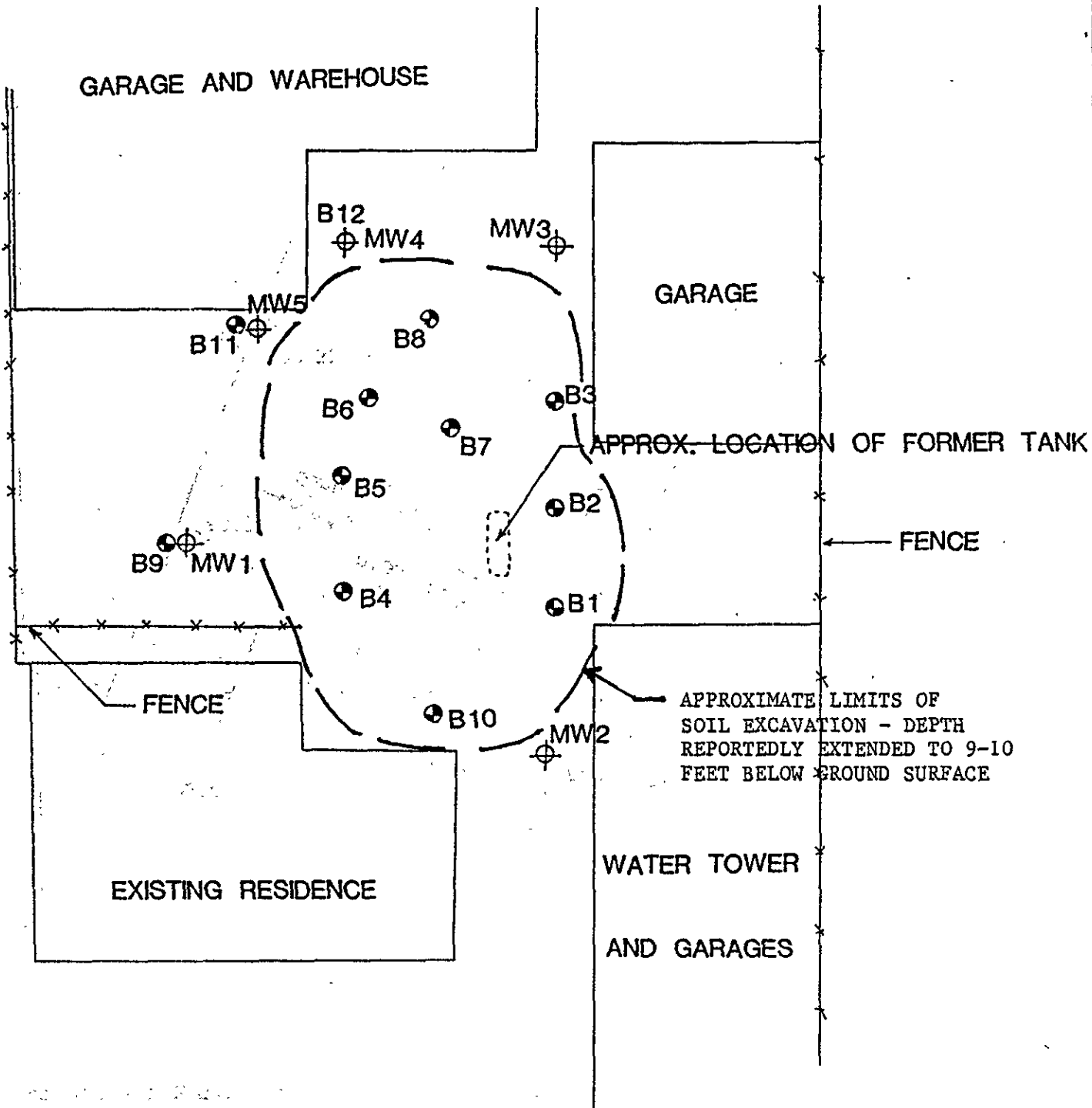
Twelve soil borings were subsequently advanced to define the lateral and vertical limits of contamination. Based on the results of this preliminary work, overexcavation ensued [SEE: Comments (Depth of Remediation, etc.) section, above, for a more detailed description]. Five (5) monitoring wells were installed at the conclusion of the overexcavation work. Based on regional flow data, four of the 5 wells were placed in the presumed downgradient direction (SW) from the final excavation; one (1) well was emplaced upgradient (ENE) of the original UST pit.

Encountered sediments in all borings were primarily silty CLAY and clayey SILT; however, (apparent) areally-discontinuous SAND/silty SAND/clayey SAND layers were also encountered at two separate depth intervals of approximately 4.5 - 8' BG and 7 - 23' BG. Thicknesses of the sandy layers ranged from approximately one to more than 9 feet in each boring. All wells were screened through these sandy layers.

Wells were initially sampled/monitored in June 1990, and then monthly from March 1991 through September 1991 followed by a semiannual schedule thereafter through October 1992. Ground water flow was calculated consistently towards the southwest; gradient was essentially stagnant, ranging from approximately 0.02 to 0.035 ftft⁻¹.

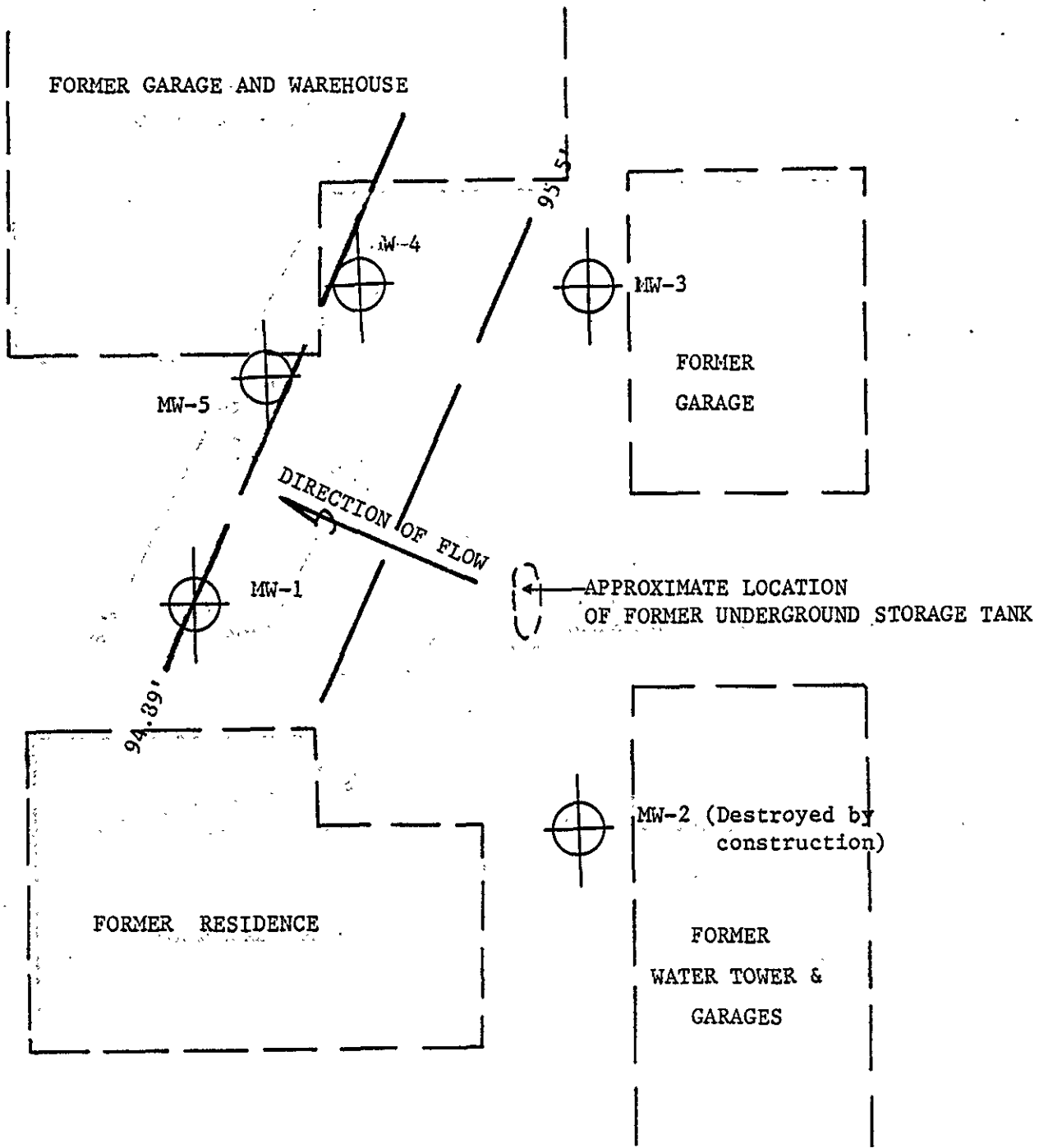
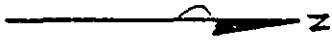
Only well MW-5, located in the most-downgradient position relative to the excavation, exhibited the presence of any dissolved phase fuel compounds during the course of this investigation. TPH-G concentrations ranged from a high of 120 to a low of 54 ppb in this well. TPH-G concentrations noted during the final sampling event, which occurred 10/09/92, was 77 ppb. Benzene was not detected at all between June 1991 and the final October 1992 event. Prior to this, benzene concentrations ranged between 0.6 and 1.2 ppb, detected only during three of the 10 sampling events. All other aromatic compounds were ND for the duration of the project.

Currently, a restaurant parking lot is located on this site. Well MW-2 was damaged and rendered inoperable during the grading activities associated with the construction of this lot. Final and appropriate well destruction of this and the remaining wells will commence upon receipt of final site closure.



- ⊕ SOIL BORING
- ⊕ MONITORING WELL

DAVID C. GLICK ASSOCIATES		
DATE 6-27-90	SCALE 1"=20'	DRAWN BY DCG
SOIL EXCAVATION PLAN		
		Figure 4



DAVID C. GLICK ASSOCIATES		
DATE 3-28-91	SCALE 1"=20'	DRAWN BY dcg
GROUND WATER GRADIENT PLAN		
STOCKEL	Figure 6	