



AquaScience Engineers

May 27, 1986

Dale Bowyer, Water Resources Control Engineer
Regional Water Quality Control Board
1111 Jackson St.
Oakland, CA. 94607

REGIONAL WATER

MAY 28 1986

WATER CONTROL BOARD

Dear Mr. Bowyer:

Enclosed are the results of soil and groundwater samples taken during a tank removal at the former Garrett Freightlines site in Emeryville. Please note that in response to the motor fuel contamination present, a plan for mitigation was prepared. The plan is part of other proposed work at the site and is currently being reviewed by the Alameda County Health Department.

Please notify me if you wish to review the proposed clean-up plan.

Sincerely,

Terrance E. Carter
Engineering Services



Aqua Science Engineers

May 27, 1986

AI

JB

Mike Heim
Heim Brothers
375 Arthur Road
Martinez, CA. 94553

RE:REPORT - SOIL SAMPLING AND DETERMINATION OF HYDROCARBON CONTAMINATION FROM TANK REMOVAL AT THE BAY PORT DEVELOPMENT 64th AND LACOSTE STREET, EMERYVILLE CA. Alameda

During the period 1960 to 1985 Garrett Freightlines operated a truck terminal at 64th and Lacoste Streets in Emeryville, CA. The site was used as a municipal dump for nonspecific solid waste between 1940 and 1960. The site is currently under demolition by the Martin Co. with the intention of constructing an office complex and parking facility upon it. Part of the pre-construction work was to remove the 12 underground fuel tanks. A total of 12 tanks of various capacities (8 diesel, 1 gasoline and 3 waste oil) were removed from three tank pits located on the northeastern and eastern portions of the property, Figure 1. This work was performed from April 21 to 23, 1986, by Tom Daniels Excavation, Inc. under subcontract to the Heim Construction Co. Aqua Science Engineers, Inc. was subcontracted to collect soil and water samples during the tank removal process.

The tank pits were approximately 12 feet below grade. The water table is at a depth of approximately 9 feet. Following tank excavation each tank was inspected for cracks and holes by the Emeryville Fire Department and Aqua Science Engineers. None were found. Each of the tank pits contained groundwater with floating product residues approximately one-half inch thick. The product was skimmed and disposed of by H & H Services of San Francisco.



Once the floating product was removed, water samples were sampled using a teflon bailer, washed with TSP, rinsed with tap water and then distilled water. The sample vials and bottles will be filled to overflowing in such a manner: (1) that precluded air bubbles passing through the sample during filling, and (2) sealed so that no air was entrapped in the vial. Once filled, samples were inverted and tapped to test for air bubbles. Samples will be placed on ice and delivered to the lab as soon as possible.

Soil samples were collected one foot above water surface elevation from the tank pit wall, one from each tank end. Each sample was collected by inserting a 4-inch long by 2-inch wide brass tube into the tank pit wall, the length of the tube. The tube was pulled from the soil with the

compacted sample inside, capped with aluminum foil and plastic caps, wrapped with light-tight tape, labeled, and immediately placed in an ice chest containing cube ice. A total of 24 soil samples were collected from the 12 tanks excavated.

Figure 2 presents the results of the soil and groundwater analysis for motor fuel hydrocarbons. The results indicate that motor fuel contamination in the soil and groundwater is above acceptable limits set by the Regional Water Quality Control Board and that a program of decontamination is necessary.

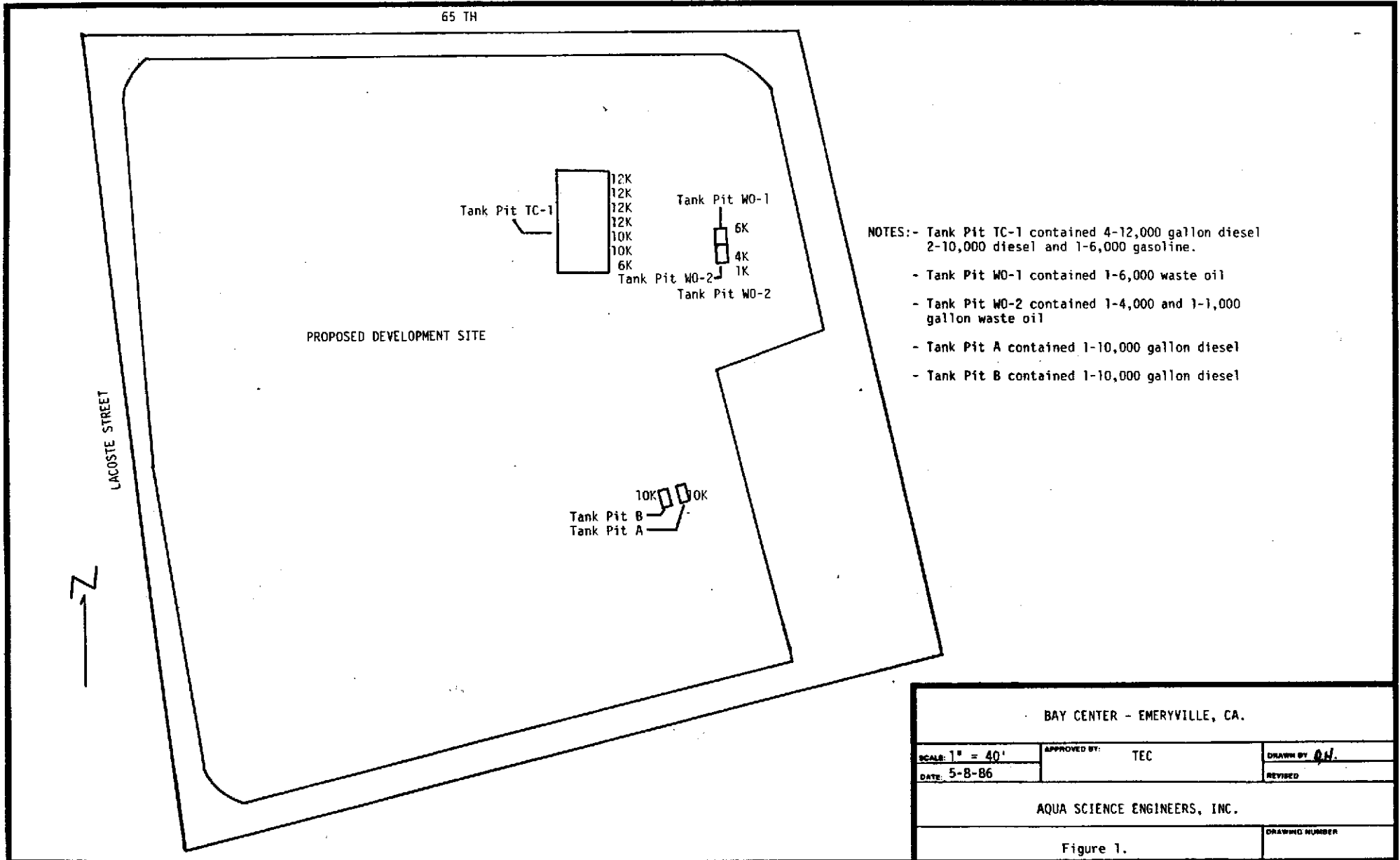
Sincerely,

Terrance E. Carter

Terrance E. Carter
Engineering Services

cc:

Dale Bowyer, Calif. Regional Water Quality Control Board
Ted Gerow, Alameda County Health Department



65 TH

LACOSTE STREET

PROPOSED DEVELOPMENT SITE

Tank Pit TC-1

12K
12K
12K
10K
10K
6K

Tank Pit WO-1

6K
4K
1K

Tank Pit WO-2

Tank Pit WO-2

Tank Pit B
Tank Pit A

10K 10K

- NOTES:- Tank Pit TC-1 contained 4-12,000 gallon diesel
2-10,000 diesel and 1-6,000 gasoline.
- Tank Pit WO-1 contained 1-6,000 waste oil
 - Tank Pit WO-2 contained 1-4,000 and 1-1,000 gallon waste oil
 - Tank Pit A contained 1-10,000 gallon diesel
 - Tank Pit B contained 1-10,000 gallon diesel

BAY CENTER - EMERYVILLE, CA.

SCALE: 1" = 40'
DATE: 5-8-86

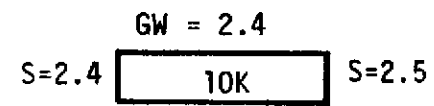
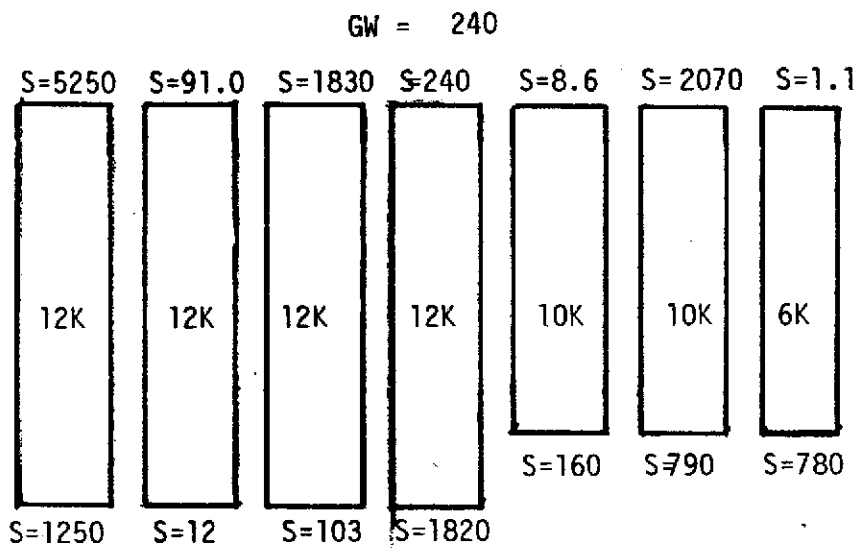
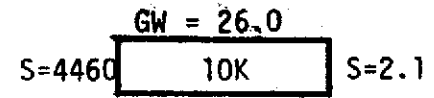
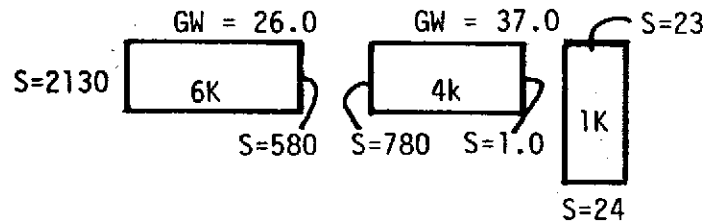
APPROVED BY: TEC

DRAWN BY: *OH*
REVISED

AQUA SCIENCE ENGINEERS, INC.

Figure 1.

DRAWING NUMBER



K = Tank capacity in 1000 U. S. gallons
 S = Soil sample results
 GW = Groundwater sample results
 Note: Sample results are total hydrocarbons (EPA5020/8015) in ppm.

BAY CENTER _ EMERYVILLE, CA.		
SCALE:	APPROVED BY:	DRAWN BY D.H.
DATE: 5-6-86		REVISED
AQUA SCIENCE ENGINEERS, INC.		
		DRAWING NUMBER Figure 2.