Mayer Development Co.

LEON E. MAYER
753 PERALTA AVENUE
SAN LEANDRO, CA 94577

BUS. 510-569-4457
RES. 510-582-2220

July 27, 1992

Alameda County Health Dept.
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA. 94621
Attn: Barney Chan

Dear Mr. Chan;

Enclosed please find final site evaluation report on the subject site.

Please consider a quick review of said report as we have final financing, permits and construction crew ready to start this project as soon as we obtain your final approval. These homes as you know will be low cost housing therefore we also have people waiting for their homes.

Also the City is pushing us to start this construction as they have a financial interest in this project.

Sincerely Yours,

Leon E. Mayer

SITE EVALUATION REPORT

MAYER PROPERTIES, INC.
342-344 105th Avenue
Oakland, California

Prepared for:

Mr. Leon Mayer
Mayer Properties, Inc.
753 Peralta Avenue
San Leandro, California 94577

Prepared by:

SJV Consultants
P.O. Box 7418
Fremont, California 94537

July 21, 1992

File No 0191022 00

K A Madenwald, PE, RG

John N Alt CEG 1136

TABLE OF CONTENTS

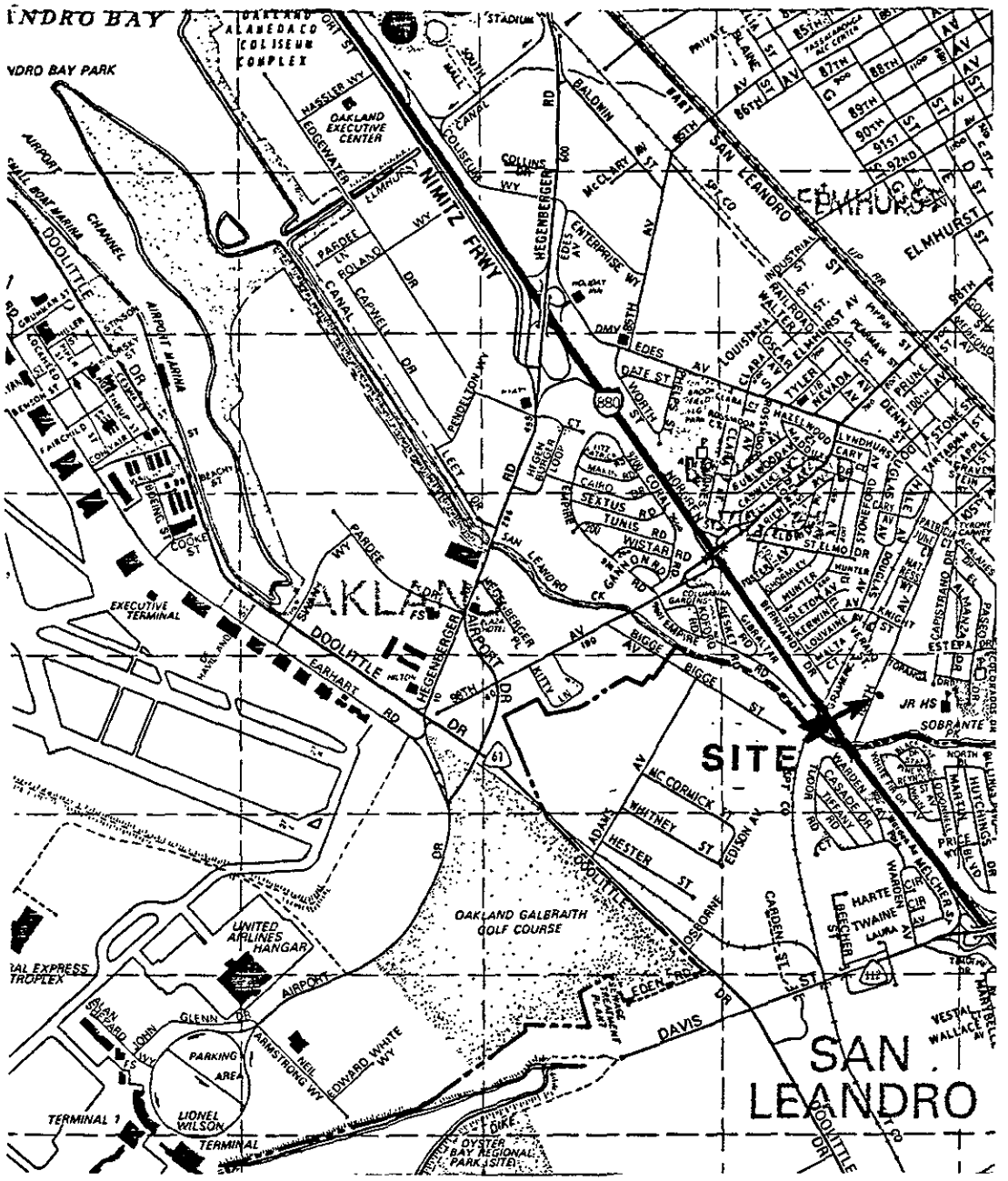
Introduction

This report presents the evaluation of the completed work at a site located at 342-344 105th Avenue, Oakland, California (See Plate 1). The site was formerly owned by the Turrini family and was used as a nursery property. The site has been vacant for some years and was purchased by Mayer Development, Inc. for the purpose of constructing multiple low cost dwelling units. This report lists the work accomplished on the site and evaluates: the groundwater investigation, investigative methods, remedial activities and effectiveness and remediation sign off are presented.

Background

The site, located at 342-344 105th Avenue, Oakland, California was formerly a nursery owned by the Turrini family. Two greenhouses were located on the property and a small boiler was used to provide steam for heating the greenhouses. The boiler was supplied by a 500 gallon steel underground tank (See Plate 2) with one 24 inch opening in the center of the tank. It appears that the fill and supply port, to the boiler, were one and the same. An underground oil line leading to the area of the boiler was noted and removed.

The underground tank was removed by Verls' Construction on December 18, 1991. On January 17, 1990, Mr. Ariu Levi, Alameda County Health Care Services Agency wrote a letter to Verl Rothlisberger of Verls' Construction stating: "Because of the degree of contamination found,



MAP SOURCE:
THOMAS BROTHERS, 1989 edition

SCALE IN MILES

0 1/2 1

SCS ENGINEERS
STEARNS CONRAD AND SCHMIDT
CONSULTING ENGINEERS INC

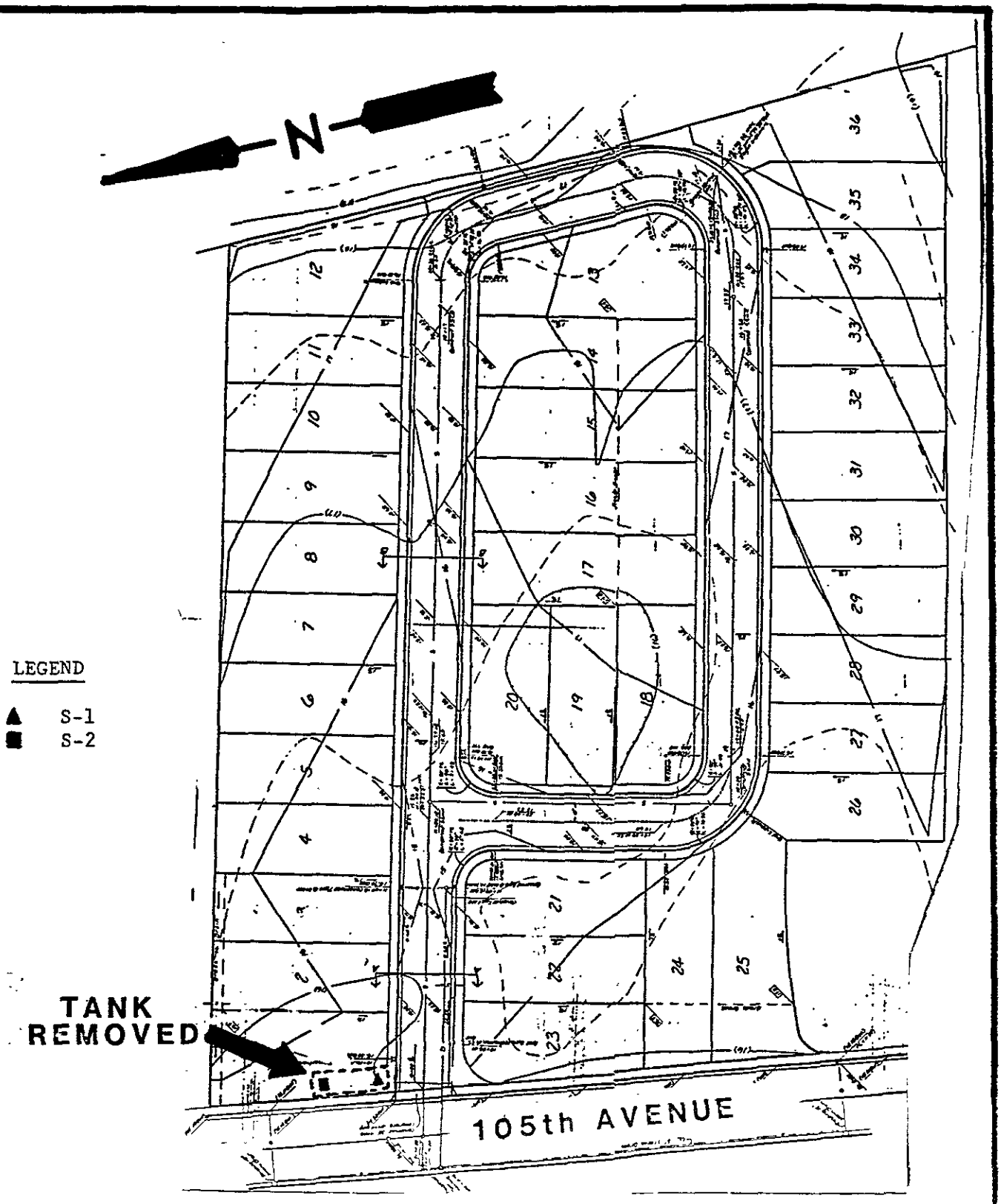
6761 D SIERRA COURT
DUBLIN, CA 94568

VICINITY MAP
VERL'S CONSTRUCTION, INC.
OAKLAND, CALIFORNIA

Project No 0389060.00

Date 2-13-90

Plate
1



SCS ENGINEERS
STEARNS CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
6761 D SIERRA COURT
DUBLIN, CA 94568

SAMPLE LOCATIONS
VERL'S CONSTUCTION, INC.
OAKLAND, CALIFORNIA

Plate
2

this facility is considered to have experienced a confirmed release of petroleum hydrocarbons that has impacted subsurface soil and ground water. The extent of this contamination must be assessed and remediated".

On February 20, 1990, CTTS (Toxic Technology Services) obtained soil samples from under the product pipeline (leading from the underground tank to the boiler area, from the tank excavation, from the excavation walls and from the removed topsoil. Analytical results indicated that the excavation and the excavation walls were highly contaminated and that excavation by Verls' Construction did not encompass the entire "plume" of contaminated soil. Also, it was noted that the "topsoil" indicated minor amounts of contaminants. The analytical results attached to the report list the findings for EPA 8080 and nothing more (See Appendix I).

On February 22, 1990, SCS Engineers issued the report for the removal of the storage tank at the subject site. Soil samples were taken at the ends of the tank excavation and noted contaminants in the soil and "oily product" visible in the bottom of the excavation. The sample from the south end of the excavation (S-1) noted 4100 ppm Total Oil and Grease (503E) and 3000 ppm Oil and Grease (503D). The sample from the north end of the excavation (S-2) indicated 7700 ppm Oil and Grease (503E) and 10,000 ppm Oil and Grease (503D) and 230 ppm diesel (EPA 8015 D) Other constituents of less than <10 ppm were noted based on EPA 8270 analysis (See Appendix II-1)

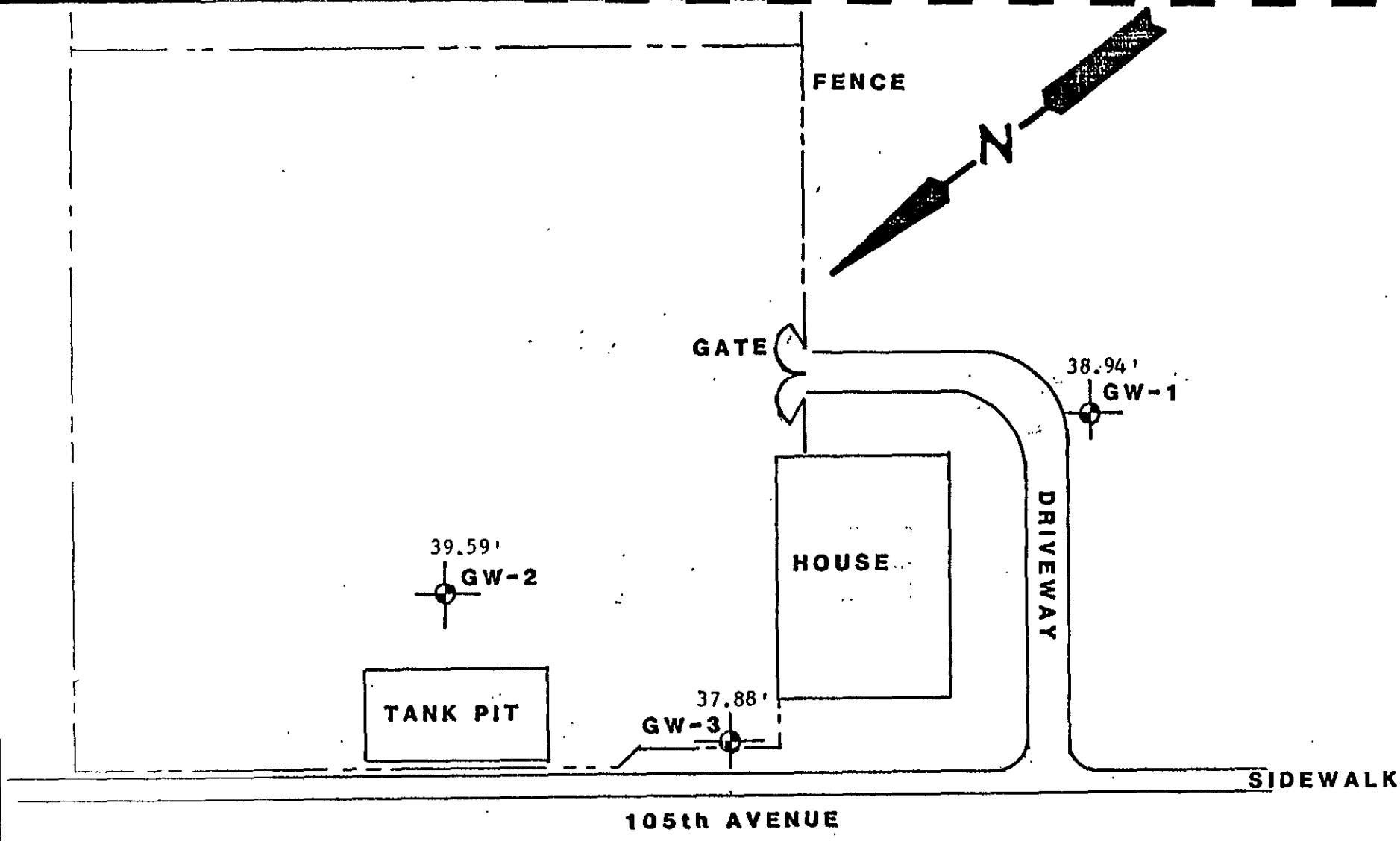
Groundwater Wells

SCS Engineers, Dublin, California proposed and was awarded the contract to drill three (3) borings/groundwater monitoring wells on the property. The wells, as proposed, were directly south of the tank, southwest of the tank in an assumed downgradient direction and east of the tank in an upgradient direction and also in the vicinity of the fuel supply line to the boiler (See Plate 3). The wells were drilled on February 22nd and 23rd, 1990 to a Total Depth of 25 feet below ground surface. All wells were cased with 4" Sch. 40 PVC casing and Wells 1 and 2 were developed on February 23rd and 26th. Well 3 would not recharge and it was believed that the aquifer had smeared with mud so the well was surged by TAT. All wells were then measured for groundwater elevation. Based on the groundwater elevation survey downgradient flow direction is westerly (See Plate 4 and Appendix II-2).

Groundwater Analyses

Analysis of the original groundwater samples indicate that, all three wells, for Diesel and Total Oil and Grease, were ND and on March 8, 1990 SCS Engineers again sampled MW-3 and analyses for Diesel and Total Oil and Grease were ND (See Appendix II-2).

SJV Consultants sampled MW-1 and MW-3 on April 15, 1992. Groundwater elevations were taken for the record and to obtain a partial determination of approximate water gradient. Analyses for Base Neutral And Acid Extractables (EPA Method 625), TPH(g) with BTEX (EPA Methods 5030 and 8020), TPH(d) (EPA Method 3510) and Total Oil and Grease (EPA Method 5520BF) indicated ND for all parameters



GROUNDWATER MONITORING WELL

SCALE: 1" = 30'

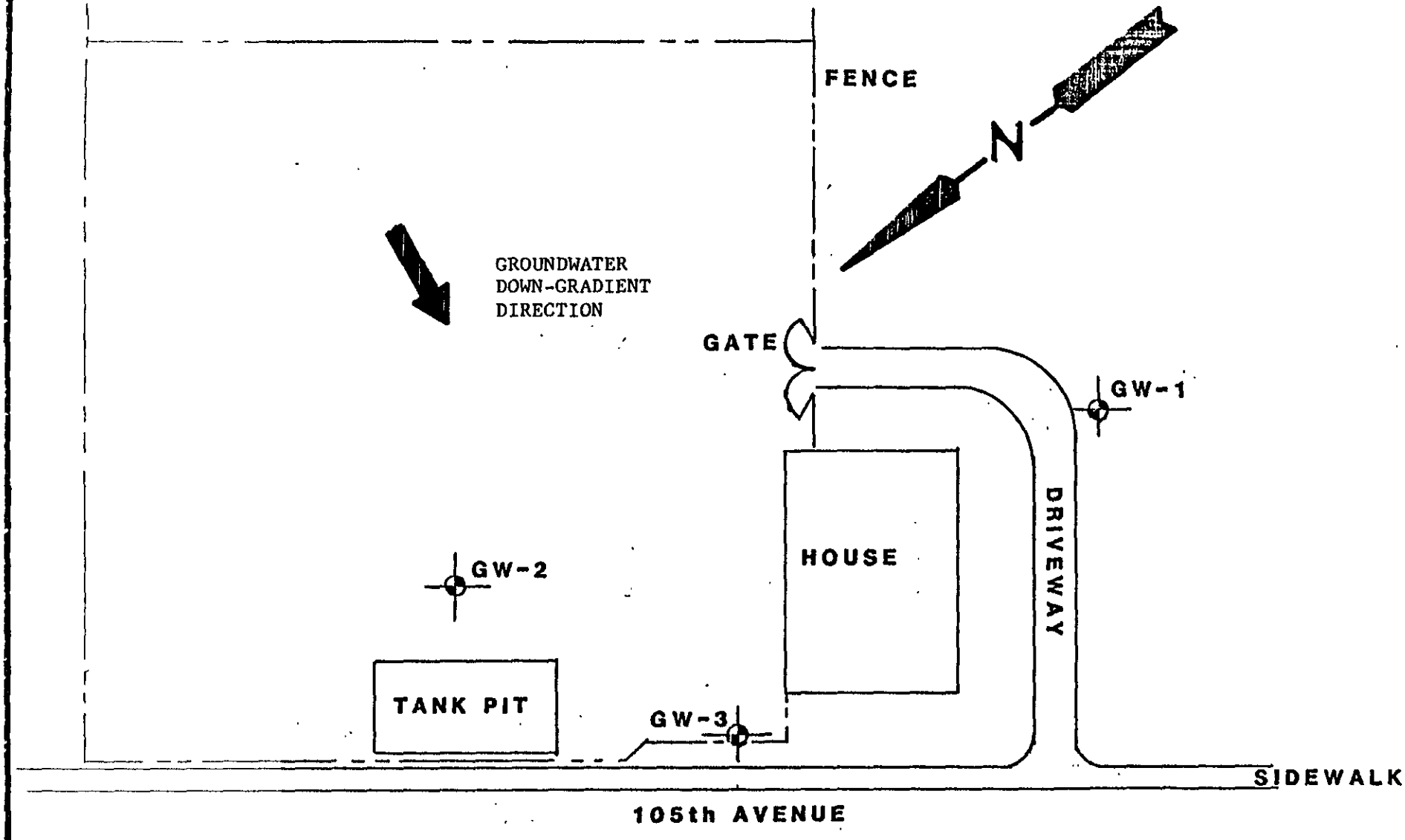
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
6761 D SIERRA COURT
DUBLIN, CA 94568

RELATIVE GROUNDWATER ELLEVATIONS
342-105th Avenue
Oakland, California

Project No. 0389060.01

Date: 3-13-90

Plate 3



GROUNDWATER MONITORING WELL

SCALE: 1" = 30'

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
6761-D SIERRA COURT
DUBLIN, CA 94568

LOCAL GROUNDWATER DOWN-GRADIENT DIRECTION
342-105th AVENUE
OAKLAND, CALIFORNIA

Project No. 0389060.01

Date: 3-13-90

Plate
4

SJV Consultants sampled the two monitoring wells, in August, ~~1992~~ 1991 for the same constituents and analytical results indicated MW-1 had 63 ppb TPH(g) "based on a discrete peak which are not indicative of gasoline" and MW-3 was ND (See Appendix III).

On October 15, 1991 SJV Consultants sampled the two wells and analytical results indicate that MW-3 had 1.1 ppm of Oil and Grease and ND in all other constituents whereas MW-1 was ND in all constituents (See Appendix III). The well sampling, the first part of July, 1992 was incomplete. (For all groundwater analyses see Table 1).

Regional Geology

The elevation of the site is approximately 46 feet above sea level and the ground surface slopes very gently westward. Geologic mapping of unconsolidated deposits in the site region (USGS MF Map 429, Helley, Lajoie and Burke, 1972) shows the site as situated on the distal edge of a younger (Holocene age) alluvial fan deposits derived from the hills to the east and northeast. The sediment size decreases westward toward the bay and at the site would consist primarily of clays and clayey silts. Geological mapping of the area (D. H. Radbruch, USGS Geologic Quadrangle Map of the Oakland East Quadrangle, California, 1969) indicate that the site consists of Quaternary undifferentiated deposits.

San Leandro Creek forms the western boundary of the area which is juxtaposed with the Nimitz Freeway (US 880) San Leandro Creek flows northwesterly into San Leandro channel and enters into San Leandro Bay adjacent to "Arrowhead Marsh"

TABLE I

Summary, Groundwater Analyses

	8015(D)	8015(G)	625	503E O+G	BTX&E
SCS Eng. (3-19-90)					
GW-1	ND	-	ND	-	
GW-2	ND	-	ND	-	
GW-3	ND	-	75(1)	ND	
SCS Eng. (4-4-90)					
GW-3	ND	-	-	ND	
SJV Cons. (4-21-91)					
GW-1	ND	ND	ND	ND	ND
GW-3	ND	ND	ND	ND	ND
SJV Cons. (8-12-91)					
GW-1	ND	63		ND	
GW-3	ND	ND		ND	
SJV Cons. (10-22-91)					
GW-1	ND	ND		1.1	ND
GW-3	ND	ND		ND	ND

(1) Bis(2-ethylhexyl)phthalate

Discussion

Verls' Construction applied for a permit to destroy Monitoring Well No.2 on 8-31-90 due to excavation of contaminated soil adjacent to the well.

SJV Consultants went to the site on July 2, 1992 to perform water sampling and reaching the site it was noted that the external locks had been removed from the above ground steel well protection devices and the internal locks and plugs had been removed. Inspection indicated that both existing wells had been vandalized by the introduction of concrete and rock particles into the casing. MW-1 was filled to about three feet from the top of the casing and MW-3 was filled to about 5 feet from the top of the casing. Efforts were made to go around the concrete pieces but no entry was possible. This situation was discussed with Mr. Leon Mayer, owner of Mayer Properties, Inc., and a telephone discussion was held with Mr. Barney Chan of the Alameda County Health Services. Agreement was reached to file a comprehensive report outlining the past data and the fact that a gradient had been established for the groundwater flow direction. Also it should be noted that the well MW-2 had been located upgradient from the former tank site.

Alameda County Health Services has requested an off site groundwater monitoring well in a downgradient direction This decision is still under advisement by Mayer Properties, Inc

Recommendations

Previous correspondence with the Alameda County Health Services has indicated that no additional remediation be accomplished as regards the soil contamination problem that previously existed. The groundwater monitoring program was the only remaining item for site closure. It is the opinion of SJV Consultants that the groundwater monitoring program be considered finalized and that a variance be granted for the completion of the last quarterly monitoring. This request is prompted by the pending issuance of funds for the construction of multiple family low cost housing.

Off site investigations will be required to determine the possibility of contamination of the soil and/or groundwater in a downgradient direction. It is requested that this NOT impact the closure of the subject site so the monies can be released to complete the low cost housing project for the City of Oakland.

APPENDIX I

CTTS Report on Soil Sampling

toxic technology services inc.

February 20, 1990
File No. 90-1

Mr. Verl Rothlisberger
Verl's Construction
753 Peralta Ave.
San Leandro, California 94577

Subject: Soil Sampling of January 18, 1990
342 - 105th Avenue, Oakland, Ca.

Dear Verl:

Enclosed are the results of the ten soil samples collected by Lisa Polos of CTTS, Inc. (Toxic Technology Services) on January 18, 1990.

The samples collected were from under the product pipeline leading from the underground tank to the boiler, from the tank excavation itself, from the excavation around the tank pit and from the pile of topsoil.

In summary, the soil in the tank pit is still quite laden with heavy petroleum hydrocarbons. The excavation around the pit also has petroleum hydrocarbon contamination indicating that this excavation did not encompass the contamination plume. The pipeline shows appreciable contamination from 40' -60'along the pipeline. The topsoil has minor petroleum hydrocarbon contamination and at this point in time, should not be used as fill.

The data thus far indicates two situations. The first is the tank pit itself. The data indicates that the area is heavily contaminated and probably the most economical and less time consuming remediation would be to excavate and haul the highly contaminated material away to a properly licensed disposal facility.

The second situation is the less contaminated soil of the excavation by the tank pit, the pipeline and the topsoil. This soil could feasibly be treated by bioremediation, but could take considerable time. With approval from the local and state agencies, this process or some other appropriate treatment, should be started as soon as possible.

In the meantime, no further excavation should take place until the groundwater quality is determined. With groundwater being at a shallow depth, it is likely that not only the groundwater is contaminated, but is contributing to the contamination of the soil in the saturated zone.

Table 1 presents the locations of soil samples collected. Appendix A presents the laboratory results. Analytical work was performed by TMA/Norcal in Richmond, a state certified hazardous waste laboratory.

All samples were collected in brass tubes, with the ends covered with aluminum foil and plastic caps. Samples were placed on ice and delivered on January 18, 1990 to TMA/Norcal.

In the event that you have questions, I can be reached at (415) 799-1140.

Sincerely,

Lisa Polos

Lisa A. Polos, REA
Senior Scientist
Toxic Technology Services
CTTS, Inc.

Enclosures

TABLE 1

SAMPLING LOCATIONS
342 - 105TH AVENUE, OAKLAND

JANUARY 18, 1990

Samples 1-4 are from under the product pipeline leading from the tank to the boiler. Samples were collected at an approximate depth of 24" below grade.

1. At beginning of pipeline; 61' from northeast fence
2. 20' along pipeline; 58' from northeast fence
3. 40' along pipeline; 55' from northeast fence
4. 60' end of pipeline; 51' from northeast fence

5. Tank pit bottom; depth of 9'9"; 6' from sidewalk; 80' from northeast fence corner

Samples 6-8 are from the excavation on the east side of the tank pit.

6. Sidewall; depth of 7'6"; 20' from sidewalk; 41' from northeast fence corner
7. Excavation bottom; depth of 8'; 20' from sidewalk; 70' from northeast fence corner
8. Sidewall; depth of 7'6"; 20' from sidewalk; 80' from northeast fence corner

Samples 9 & 10 were taken from the pile of topsoil located on the north side of the house. Samples were collected by placing soil in a brass tube with a trowel, every five feet along the pile, starting at the northwest end. Excavation personnel indicated that the top of the pile represented soil that was at a approximate depth of 5' below grade.

9. Composite top soil, 0'-30' along the pile
10. Composite top soil, 35'-70' along the pile

[redacted] Arrived [redacted] d [redacted]

Stored in R2 NJ

Thermo Analytical Inc.

CHAIN OF CUSTODY RECORD

.633
310-382-8132

PROJECT NAME: 105th Ave

S: (Signature) (415) 799-1140 Lisa A. Polos

Report to: Lisa Polos, PO Box 515, [illegible] CA 94572 (415) [illegible]

Analyses: Normal Turnaround

DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CON-TAINERS	CAM 17 metals	8270	8080	TPH-Diesel	TPH-Gas	BTEX	Total Oil & Grease (Petroleum)	REMARKS
1/18/90			X	0' at excavation	1				X	X	X	X	
			X	20' under pipe	1				X	X	X	X	
			X	40' under pipe	1				X	X	X	X	added 1/24 per L.P.
			X	60' end	1				X	X	X	X	
			X	tank pit bottom	1		X	X	X	X	X	X	added 1/22 per L.P. Run dilution
			X	sidewall 41'	1				X	X	X	X	
			X	excav. bottom	1				X	X	X	X	
			X	sidewall 80'	1				X	X	X	X	
		X		top soil 0'-30'	1	X	X	X	X	X	X	X	
↓		X		top soil 35'-70'	1	X	X	X	X	X	X	X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Lisa A. Polos	1/19/90 17:45				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature]	Date / Time 1/19/90 1755	Remarks: Bill: Gary Tompkins & Assoc. 1984 A Santa Rita Rd. Suite 365 Pleasanton CA. 94566	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

EPA METHOD 8080
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS ASSO.
Client Sample ID: #10TOPS.35'-70'
TMA/Normal SAMPLE ID: 5937-1-10
Extract Method: SOXHLET

Date Received: 1/18/90
Date Extracted: 1/24/90
Date Analyzed: 1/30/90

CAS No	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
319-84-6	alpha-BHC	< 8.0	8.0
319-85-7	beta-BHC	< 8.0	8.0
319-86-8	delta-BHC	< 8.0	8.0
58-89-9	gamma-BHC(Lindane)	< 8.0	8.0
76-44-8	Heptachlor	< 8.0	8.0
309-00-2	Aldrin	< 8.0	8.0
1024-57-3	Heptachlor Epoxide	< 8.0	8.0
959-98-8	Endosulfan I	< 8.0	8.0
60-57-1	Dieldrin	< 16.0	16.0
72-55-9	4,4'-DDE	< 16.0	16.0
72-20-8	Endrin	< 16.0	16.0
33213-65-9	Endosulfan II	< 16.0	16.0
72-54-8	4,4'-DDD	< 16.0	16.0
1031-07-8	Endosulfan sulfate	< 16.0	16.0
50-29-3	4,4'-DDT	< 16.0	16.0
72-43-5	Methoxychlor	< 80.0	80.0
53494-70-5	Endrin ketone	< 16.0	16.0
5103-71-9	alpha-Chlordane	< 80.0	80.0
5103-74-2	gamma-Chlordane	< 80.0	80.0
57-74-9	Technical Chlordane	< 80.0	80.0
8001-35-2	Toxaphene	< 160.0	160.0
12674-11-2	Aroclor-1016	< 80.0	80.0
11104-28-2	Aroclor-1221	< 80.0	80.0
11141-16-5	Aroclor-1232	< 80.0	80.0
53469-21-9	Aroclor-1242	< 80.0	80.0
12672-29-6	Aroclor-1248	< 80.0	80.0
11097-69-1	Aroclor-1254	< 160.0	160.0
11096-82-5	Aroclor-1260	< 160.0	160.0

Author

Data Release Authorized By

EPA METHOD 8080
TARGET ANALYTE RESULTS

Client: AEY TOMPKINS ASSO.
Client Sample ID: #9TOPSOIL0'-30'
TMA Norcal SAMPLE ID: 6937-1-9
Extraction Method: SOXHLET

Date Received: 1/18/90
Date Extracted: 1/24/90
Date Analyzed: 1/30/90

CAS No.	COMPOUND	RESULTS (ug/Kg)	DETECTION LIMITS (ug/Kg)
319-84-6	alpha-BHC	< 8.0	8.0
319-85-7	beta-BHC	< 8.0	8.0
319-86-8	delta-BHC	< 8.0	8.0
58-89-9	gamma-BHC(Lindane)	< 8.0	8.0
76-44-8	Heptachlor	< 8.0	8.0
309-00-2	Aldrin	< 8.0	8.0
1024-57-3	Heptachlor Epoxide	< 8.0	8.0
959-98-8	Endosulfan I	< 8.0	8.0
60-57-1	Dieldrin	< 16.0	16.0
72-55-9	4,4'-DDE	< 16.0	16.0
72-20-8	Endrin	< 16.0	16.0
33213-65-9	Endosulfan II	< 16.0	16.0
72-54-8	4,4'-DDD	< 16.0	16.0
1031-07-8	Endosulfan sulfate	< 16.0	16.0
50-29-3	4,4'-DDT	< 16.0	16.0
72-43-5	Methoxychlor	< 80.0	80.0
53494-70-5	Endrin ketone	< 16.0	16.0
5103-71-9	alpha-Chlordane	< 80.0	80.0
5103-74-2	gamma-Chlordane	< 80.0	80.0
57-74-9	Technical Chlordane	< 80.0	80.0
8001-35-2	Toxaphene	< 160.0	160.0
12674-11-2	Aroclor-1016	< 80.0	80.0
11104-28-2	Aroclor-1221	< 80.0	80.0
11141-16-5	Aroclor-1232	< 80.0	80.0
53469-21-9	Aroclor-1242	< 80.0	80.0
12672-29-6	Aroclor-1248	< 80.0	80.0
11097-69-1	Aroclor-1254	< 160.0	160.0
11096-82-5	Aroclor-1260	< 160.0	160.0

Data Release Authorized By

EPA METHOD 8080
TARGET ANALYTE RESULTS

Client: LAFF TOMPKINS ASSO.
Client Sample ID: #5TANKPITBOTTOM
TMA/Normal SAMPLE ID: 6937-1-5
Extract.Method: SOXHLET

Date Received: 1/18/90
Date Extracted: 1/24/90
Date Analyzed: 1/30/90

CAS No	COMPOUND	SOIL RESULTS (ug/Kg)	SOIL DETECTION LIMITS (ug/Kg)
319-84-6	alpha-BHC	< 40.0	40.0
319-85-7	beta-BHC	< 40.0	40.0
319-86-8	delta-BHC	< 40.0	40.0
58-89-9	gamma-BHC(Lindane)	< 40.0	40.0
76-44-8	Heptachlor	< 40.0	40.0
309-00-2	Aldrin	< 40.0	40.0
1024-57-3	Heptachlor Epoxide	< 40.0	40.0
959-98-8	Endosulfan I	< 40.0	40.0
60-57-1	Dieldrin	< 80.0	80.0
72-55-9	4,4'-DDE	< 80.0	80.0
72-20-8	Endrin	< 80.0	80.0
33213-65-9	Endosulfan II	< 80.0	80.0
72-54-8	4,4'-DDD	< 80.0	80.0
1031-07-8	Endosulfan sulfate	< 80.0	80.0
50-29-3	4,4'-DDT	< 80.0	80.0
72-43-5	Methoxychlor	92.0 J	400.0
53494-70-5	Endrin ketone	< 80.0	80.0
5103-71-9	alpha-Chlordane	< 400.0	400.0
5103-74-2	gamma-Chlordane	< 400.0	400.0
57-74-9	Technical Chlordane	< 400.0	400.0
8001-35-2	Toxaphene	< 800.0	800.0
12674-11-2	Aroclor-1016	< 400.0	400.0
11104-28-2	Aroclor-1221	< 400.0	400.0
11141-16-5	Aroclor-1232	< 400.0	400.0
53469-21-9	Aroclor-1242	< 400.0	400.0
12672-29-6	Aroclor-1248	< 400.0	400.0
11097-69-1	Aroclor-1254	< 800.0	800.0
11096-82-5	Aroclor-1260	< 800.0	800.0

[illegible] FOUND AT LOWER THAN DETECTION LIMIT.

Data Reviewed By

Data Released/Authorized By

Page [illegible]

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-9

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Client Sample ID #9 TOPSOIL

Cas. No.	COMPOUND	Scan Number	Results UG/KG	Fn *
[illegible]	METHYLNAPHTHALENE (DL=1000 UG/KG)		11	B,J
[illegible]	BENZOIC ACID (DL= 600 UG/KG)		909	

*Qualifiers

B = the analyte was found in the method blank.

J = the reported concentration is an estimate only. The response [illegible] was assumed to be [illegible] relative to an internal standard. [illegible] is an estimated [illegible] concentration below the Method Detection [illegible]

[illegible] is unknown.

[illegible] standards [illegible] used for this compound.

[illegible] ted.

[illegible] fication is tentative [illegible] closely related to the

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-9

EPA METHOD 8270
TARGET ANALYTE RESULTS

Sample ID #9 TOPSOIL

CAS #	COMPOUND	RESULTS (ug/Kg)	METHOD DETECTION LIMITS (MDL) (ug/kg)
[illegible]	pentachlorophenol	ND	3300
[illegible]	phenanthrene	16 J	660
[illegible]	anthracene	5 J	660
[illegible]	di-n-butyl phthalate	13 J	660
[illegible]	fluoranthene	18 J	660
[illegible]	pyrene	24 J	660
[illegible]	benzidine	ND	1000
[illegible]	benzyl-butylphthalate	ND	660
117-81-7	bis(2-ethylhexyl)phthalate	28 J,B	660
[illegible]	benzo(a)anthracene	ND	660
[illegible]	chrysene	ND	660
[illegible]	3,3-dichlorobenzidine	ND	1300
[illegible]	di-n-octylphthalate	ND	660
[illegible]	benzo(b)fluroanthene	22 J	660
[illegible]	benzo(k)fluoranthene	30 J	660
[illegible]	benzo(a)pyrene	ND	660
[illegible]	indeno(1,2,3-cd)pyrene	ND	660
[illegible]	dibenzo(a,h)anthracene	ND	660
[illegible]	benzo(ghi)perylene	ND	660

See footnotes on page 3

Analyst

Reviewer

Data Release Authorized By

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-9

EPA METHOD 8270
TARGET ANALYTE RESULTS

Client Sample ID #9 TOPSOIL Client GARY TOMPKINS & ASSOCIATES

Batch ID [illegible] Date Extracted 01/29/90 Date of Analysis 01/31/90

TMA Norcal Set ID 6937-1

CAS No.	COMPOUND	RESULTS (ug/Kg)	METHOD DETECTION LIMITS (MDL) (ug/Kg)
[illegible]-75-9	N-nitrosodimethylamine	ND	1000
108-95-[illegible]	phenol	ND	660
111-44-4	bis(2-chloroethyl)ether	ND	660
95-57-8	2-chlorophenol	ND	660
541-7[illegible]-1	1,3-dichlorobenzene	ND	660
106-46-7	1,4-dichlorobenzene	ND	660
95-50-1	1,2-dichlorobenzene	ND	660
39638-[illegible]	bis(2-chloroisopropyl)ether	ND	660
621-64-7	N-nitrosodi-n-propylamine	ND	660
67-72-1	hexachloroethane	ND	660
98-95-[illegible]	nitrobenzene	ND	660
78-59-1	isophorone	ND	660
88-75-[illegible]	2-nitrophenol	ND	660
105-67-9	2,4-dimethylphenol	ND	660
111-91-1	bis(2-chloroethoxy)methane	ND	660
120-83-2	2,4-dichlorophenol	ND	660
120-82-1	1,2,4-trichlorobenzene	ND	660
91-20-[illegible]	naphthalene	ND	660
87-68-[illegible]	hexachlorobutadiene	ND	660
59-50-7	4-chloro-3-methylphenol	ND	1300
77-47-4	hexachlorocyclopentadiene	ND	660
88-06-2	2,4,6-trichlorophenol	ND	660
91-58-7	2-chloronaphthalene	ND	660
131-11-3	dimethyl phthalate	ND	660
606-20-2	2,6-dinitrotoluene	ND	660
208-96-8	acenaphthylene	ND	660
83-32-9	acenaphthene	ND	660
51-28-5	2,4-dinitrophenol	ND	3300
100-02-7	4-nitrophenol	ND	3300
121-14-2	2,4-dinitrotoluene	ND	660
[illegible]	diethyl phthalate	ND	660
[illegible]	4-chlorophenyl-phenylether	ND	660
[illegible]	fluorene	ND	660
[illegible]	2-methyl-4,6-dinitrophenol	ND	3300
[illegible]	N-nitrosodiphenylamine	ND	660
[illegible]	4-bromophenyl-phenylether	ND	660
[illegible]	hexachlorobenzene	ND	660

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-10

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Client Sample ID #10 TOPSOIL

CAS #	COMPOUND	Scan Number	Results UG/KG	Fn *
[illegible]	[illegible]METHYLNAPHTHALENE (DL=1000 UG/KG)		20	B,J
[illegible]	BENZOIC ACID (DL= 660 UG/KG)		795	

NOTES:

B = The analyte was found in the method blank.

J = The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J = The value is an estimated concentration below the Method Detection Limit.

N = The CAS number is unknown.

P = The internal standards were not analyzed for this compound.

U = Not detected.

X = The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-10

EPA METHOD 8270
TARGET ANALYTE RESULTS

Client Sample ID #10 TOPSOIL

CAS No.	COMPOUND	RESULTS (ug/Kg)	METHOD DETECTION LIMITS (MDL) (ug/Kg)
87-86-5	pentachlorophenol	ND	3300
85-01-8	phenanthrene	12 J	660
120-12-7	anthracene	ND	660
84-74-2	di-n-butyl phthalate	15 J	660
206-44-0	fluoranthene	8 J	660
129-00-0	pyrene	10 J	660
92-87-5	benzidine	ND	1000
85-68-7	benzyl-butylphthalate	ND	660
117-81-7	bis(2-ethylhexyl)phthalate	47 J,B	660
56-55-3	benzo(a)anthracene	ND	660
218-01-9	chrysene	ND	660
91-94-1	3,3-dichlorobenzidine	ND	1300
117-84-0	di-n-octylphthalate	ND	660
205-99-2	benzo(b)fluroanthene	ND	660
207-08-9	benzo(k)fluoranthene	ND	660
50-32-8	benzo(a)pyrene	ND	660
193-39-5	indeno(1,2,3-cd)pyrene	ND	660
53-70-3	dibenzo(a,h)anthracene	ND	660
191-24-2	benzo(ghi)perylene	ND	660

See footnotes on page 3

Analyst

Eileen A Manning
Reviewer

Data Release Authorized By

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-10

EPA METHOD 8270
TARGET ANALYTE RESULTS

Sample ID #10 TOPSOIL Client GARY TOMPKINS & ASSOCIATES

File ID [illegible] Date Extracted 01/29/90 Date of Analysis 01/31/90

Lab Sample ID 6937-1

CAS #	COMPOUND	RESULTS (ug/Kg)	METHOD DETECTION LIMITS (MDL) (ug/Kg)
[illegible]	N-nitrosodimethylamine	ND	1000
[illegible]	phenol	ND	660
[illegible]	bis(2-chloroethyl)ether	ND	660
[illegible]	2-chlorophenol	ND	660
[illegible]	1,3-dichlorobenzene	ND	660
[illegible]	1,4-dichlorobenzene	ND	660
[illegible]	1,2-dichlorobenzene	ND	660
[illegible]	bis(2-chloroisopropyl)ether	ND	660
[illegible]	N-nitrosodi-n-propylamine	ND	660
[illegible]	hexachloroethane	ND	660
[illegible]	nitrobenzene	ND	660
[illegible]	isophorone	ND	660
[illegible]	2-nitrophenol	ND	660
[illegible]	2,4-dimethylphenol	ND	660
[illegible]	bis(2-chloroethoxy)methane	ND	660
[illegible]	2,4-dichlorophenol	ND	660
[illegible]	1,2,4-trichlorobenzene	ND	660
[illegible]	naphthalene	13 J	660
[illegible]	hexachlorobutadiene	ND	660
[illegible]	4-chloro-3-methylphenol	ND	1300
[illegible]	hexachlorocyclopentadiene	ND	660
[illegible]	2,4,6-trichlorophenol	ND	660
[illegible]	2-chloronaphthalene	ND	660
[illegible]	dimethyl phthalate	ND	660
[illegible]	2,6-dinitrotoluene	ND	660
[illegible]	acenaphthylene	ND	660
[illegible]	acenaphthene	ND	660
[illegible]	2,4-dinitrophenol	ND	3300
[illegible]	4-nitrophenol	ND	3300
[illegible]	2,4-dinitrotoluene	ND	660
[illegible]	diethyl [illegible]	ND	660
[illegible]	4-chlorophenyl-phenyl ether	ND	660
[illegible]	fluorene	ND	660
[illegible]	4,6-dinitro-2-methylphenol	ND	3300
[illegible]	N-nitrosodiphenylamine	ND	660
[illegible]	4-bromophenyl-phenyl ether	ND	660
[illegible]	hexachlorobenzene	ND	660

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-5

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Client Sample ID #5 TANK PIT BTM

Lab ID	COMPOUND	Scan Number	Results UG/KG	Fn *
91-57-6	2-METHYLNAPHTHALENE (DL=1000 UG/KG)		15,400	B

(*) NOTE:

B The analyte was found in the method blank.

E The reported concentration is an estimate only. The response [illegible] was assumed to be [illegible] relative to an internal standard.

[illegible] an estimated [illegible] concentration below the Method Detection

[illegible]

[illegible] standards [illegible] for this compound.

[illegible].

[illegible] or closely related to the

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-5

EPA METHOD 8270
TARGET ANALYTE RESULTS

Client Sample ID #5 TANK PIT BTM

CAS No.	COMPOUND	RESULTS (ug/Kg)	METHOD DETECTION LIMITS (MDL) (ug/Kg)
87-86-5	pentachlorophenol	ND	3300
85-01-8	phenanthrene	4830	660
120-12-7	anthracene	794	660
84-74-2	di-n-butyl phthalate	ND	660
206-44-0	fluoranthene	ND	660
129-00-0	pyrene	1110	660
92-87-5	benzidine	ND	1000
85-68-7	benzyl-butylphthalate	ND	660
117-81-7	bis(2-ethylhexyl)phthalate	ND	660
56-55-3	benzo(a)anthracene	520 J	660
218-01-9	chrysene	587 J	660
91-94-1	3,3-dichlorobenzidine	ND	1300
117-84-0	di-n-octylphthalate	ND	660
205-99-2	benzo(b)fluoranthene	ND	660
207-08-9	benzo(k)fluoranthene	ND	660
50-32-8	benzo(a)pyrene	ND	660
193-39-5	indeno(1,2,3-cd)pyrene	ND	660
53-70-3	dibenzo(a,h)anthracene	ND	660
191-24-2	benzo(ghi)perylene	ND	660

See footnotes on page 3

Analyst

Reviewer

Data Release Authorized By

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-5

EPA METHOD 8270
TARGET ANALYTE RESULTS

Client [illegible] ID #5 TANK PIT 8IMClient GARY TOMPKINS & ASSOCIATES

File ID [illegible] Date Extracted 01/29/90 Date of Analysis 01/31/90

IMA/Norcal [illegible] Set ID 6937-1

CAS No.	COMPOUND	RESULTS (ug/Kg)*	METHOD DETECTION LIMITS (MDL) (ug/Kg)
[illegible]	N-nitrosodimethylamine	ND	1000
108-95-[illegible]	phenol	ND	660
111-44-[illegible]	bis(2-chloroethyl)ether	ND	660
95-[illegible]	2-chlorophenol	ND	660
541-7[illegible]	1,3-dichlorobenzene	ND	660
106-46-[illegible]	1,4-dichlorobenzene	ND	660
95-[illegible]	1,2-dichlorobenzene	ND	660
[illegible]	bis(2-chloroisopropyl)ether	ND	660
[illegible]	N-nitrosodi-n-propylamine	ND	660
67-[illegible]	hexachloroethane	ND	660
98-95-[illegible]	nitrobenzene	ND	660
78-5[illegible]	isophorone	ND	660
88-7[illegible]	2-nitrophenol	ND	660
[illegible]	2,4-dimethylphenol	ND	660
[illegible]	bis(2-chloroethoxy)methane	ND	660
[illegible]	2,4-dichlorophenol	ND	660
[illegible]	1,2,4-trichlorobenzene	ND	660
[illegible]	napthalene	3899	660
87-[illegible]	hexachlorobutadiene	ND	660
59-5[illegible]	4-chloro-3-methylphenol	ND	1300
[illegible]	[illegible]chlorocyclopentadiene	ND	660
[illegible]	2,4,6-trichlorophenol	ND	660
[illegible]	2-chloronaphthalene	ND	660
[illegible]	dimethyl phthalate	ND	660
[illegible]	2,6-dinitrotoluene	ND	660
[illegible]	acenaphthylene	ND	660
[illegible]	acenaphthene	1022	660
51-28-5	2,4-dinitrophenol	ND	3300
100-02-[illegible]	4-nitrophenol	ND	3300
121-14-[illegible]	2,4-dinitrotoluene	ND	660
84-66-[illegible]	diethyl phthalate	ND	660
[illegible]	[illegible]rophenyl-p[illegible]	ND	660
[illegible]	[illegible]	940	660
[illegible]	[illegible]-4,6-din[illegible]	ND	3300
[illegible]	N-nitrosodip[illegible]	919	660
[illegible]	[illegible]ophenyl-p[illegible]	ND	660
[illegible]	hexachlo[illegible]	[illegible]	660

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-DA

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Lab Sample ID: _____

COMPOUND	Scan Number	Results UG/KG	Fn *
METHYLNAPHTHALENE (DL=1000 UG/KG)		3.5	J
UNKNOWN ALCOHOL (DL = 600 UG/KG)		90	J

Footnotes:

B The analyte was found in the method blank.

J The reported concentration is an estimate only. The response [illegible] assumed to be 1:1 relative to an internal standard. [illegible] an estimated concentration below the Method Detection [illegible]

[illegible] is unknown.

[illegible] standards were not analyzed for this compound [illegible]

[illegible] concentration is [illegible], related to the [illegible].

ANALYTICAL REPORT FOR SAMPLE NO. 6937-1-BA

EPA METHOD 8270
TARGET ANALYTE RESULTS

Client Sample ID -

CAS No.	COMPOUND	RESULTS (ug/Kg)	METHOD DETECTION LIMITS (MDL) (ug/Kg)
[illegible]	pentachlorophenol	ND	3300
[illegible]	phenanthrene	ND	660
[illegible]	anthracene	ND	660
84-74-2	di-n-butyl phthalate	ND	660
[illegible]	fluoranthene	ND	660
[illegible]	pyrene	ND	660
92-87-5	benzidine	ND	1000
[illegible]	benzyl-butylphthalate	7 J	660
[illegible]	bis(2-ethylhexyl)phthalate	98 J	660
[illegible]	benzo(a)anthracene	ND	660
[illegible]	chrysene	ND	660
[illegible]	3,3-dichlorobenzidine	ND	1300
[illegible]	di-n-octylphthalate	ND	660
[illegible]	benzo(b)fluoranthene	ND	660
[illegible]	benzo(k)fluoranthene	ND	660
[illegible]	benzo(a)pyrene	ND	660
[illegible]	indeno(1,2,3-cd)pyrene	ND	660
[illegible]	dibenzo(a,h)anthracene	ND	660
[illegible]	benzo(ghi)perylene	ND	660

[illegible] footnotes on page 3

[illegible] Jones
[illegible]

Eileen A Manning
[illegible]

[illegible]
Data Release Authorized By

ANALYTICAL REPORT FOR SAMPLE No. 6937-1-[illegible]

EPA METHOD 8270
TARGET ANALYTE RESULTS

Client Sample ID _____ Client GARY [illegible]

File ID [illegible] Date Extracted 01/29/90 Date [illegible]

TMA/Norcal Set ID 6937-1

Cas. No	COMPOUND	RESULT (ug/kg)	[illegible] (ug/kg)
62-75-9	N-nitrosodimethylamine	ND	[illegible]
108-95-2	phenol	1426	[illegible]
111-44-4	bis(2-chloroethyl)ether	ND	[illegible]
95-57-8	2-chlorophenol	ND	[illegible]
541-73-1	1,3-dichlorobenzene	ND	[illegible]
106-46-7	1,4-dichlorobenzene	ND	[illegible]
95-50-1	1,2-dichlorobenzene	ND	[illegible]
39638-329	bis(2-chloroisopropyl)ether	ND	[illegible]
621-64-7	N-nitroso-di-n-propylamine	ND	[illegible]
67-72-1	hexachloroethane	ND	[illegible]
98-95-3	nitrobenzene	ND	[illegible]
78-59-1	isophorone	ND	[illegible]
88-75-5	2-nitrophenol	ND	[illegible]
105-67-9	2,4-dimethylphenol	ND	[illegible]
11-91-1	bis(2-chloroethoxy)methane	ND	[illegible]
120-83-2	2,4-dichlorophenol	ND	[illegible]
120-82-1	1,2,4-trichlorobenzene	ND	[illegible]
91-20-3	naphthalene	ND	[illegible]
87-68-3	hexachlorobutadiene	ND	[illegible]
59-50-7	4-chloro-3-methylphenol	ND	[illegible]
77-47-4	hexachlorocyclopentadiene	ND	[illegible]
88-06-2	2,4,6-trichlorophenol	ND	[illegible]
91-58-7	2-chloronaphthalene	ND	[illegible]
131-11-3	dimethyl phthalate	ND	[illegible]
606-20-2	2,6-dinitrotoluene	ND	[illegible]
208-96-8	acenaphthylene	ND	[illegible]
83-32-9	acenaphthene	ND	[illegible]
51-28-5	2,4-dinitrophenol	ND	[illegible]
100-02-7	4-nitrophenol	ND	[illegible]
121-14-2	2,4-dinitrotoluene	ND	[illegible]
84-66-2	diethyl phthalate	ND	[illegible]
7005-72-3	4-chlorophenyl-phenylether	ND	[illegible]
86-73-7	fluorene	ND	[illegible]
534-52-1	4,6-dinitro-2-methylphenol	ND	[illegible]
86-30-6	N-nitrosodiphenylamine	ND	[illegible]
101-55-3	4-bromophenyl-phenylether	ND	[illegible]
118-74-1	hexachlorobenzene	ND	[illegible]

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #10TOPSOIL35-70
TMA/Norcal SAMPLE ID: 6937-1-10

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	37	5
100-41-4	ethylbenzene	72	5
108-38-3	xylenes	79	15

G W Smith
Analyst

Data Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #7EXCAV BOTTOM8
TMA/Norcal SAMPLE ID: 6937-1-7

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	26	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

Analyst

Date Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #6#6SIDEWALL7.5
TMA/Norcal SAMPLE ID: 6937-1-6

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	19	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

G W Smith
Analyst

Data Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #5 TANK BOTTOM
TMA/Norcal SAMPLE ID: 6937-1-5

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	17 *	5
100-41-4	ethylbenzene	22	5
108-38-3	xylenes	17	15

* < BLANK

C.D. Smith
Analyst

Data Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #4 60'ENDPIPELN
TMA/Norcal SAMPLE ID: 6937-1-4

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	28	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

C W Smith
Analyst

Date Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #2 20' PIPELINE
TMA/Norcal SAMPLE ID: 6937-1-2

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	37	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

Analyst

Data Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #3 40' PIPELINE
TMA/Norcal SAMPLE ID: 6937-1-3

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	71	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

C Wsmith
Analyst

Data Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #9TOPSOIL0-30'
TMA/Norcal SAMPLE ID: 6937-1-9

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	34	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

C W Smith
Analyst

Data Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #8SIDEWALL 7.5'
TMA/Norcal SAMPLE ID: 6937-1-8

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	18 *	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

* = BLANK

C Wsmith
Analyst

Data Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: #1 TANK @ EXCAV
TMA/Norcal SAMPLE ID: 6937-1-1

Date Received: 1/18/90
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	39	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

C W Smith
Analyst

Date Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: N. A.
TMA/Norcal SAMPLE ID: INSTRUMENTBLANK

Date Received: N. A.
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	<5	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

C Smith
Analyst

Date Release Authorized By

EPA METHOD 8020
TARGET ANALYTE RESULTS

Client: GARY TOMPKINS & ASSOC.
Client Sample ID: N. A.
TMA/Norcal SAMPLE ID: METHOD BLANK

Date Received: N. A.
Date Analyzed: 1/23/90

CAS. No	COMPOUND	RESULTS (ug/kg)	DETECTION LIMITS (ug/kg)
71-43-2	benzene	<5	5
108-88-3	toluene	18	5
100-41-4	ethylbenzene	<5	5
108-38-3	xylenes	<15	15

C W Smith
Analyst

Data Release Authorized By

Analysis Results Report
Total Petroleum Hydrocarbons
Soil / Matrix

Client: GARY TOMPKINS & ASSOC.
Sample Delivery Group: 1
Analysis/Method: MOD 8015 P & T

Date Received: 1/18/90
Date Analyzed: 1/23/90
Date Reported: 1/30/90

TMA Sample ID	Client ID	Gasoline (mg/Kg)	Detection Limits (mg/Kg)
METHOD BLANK	N. A.	<10	10
6937-1-1	#1TANK 0'EXCAV	<10	10
6937-1-2	#2 20'PIPELINE	<10	10
6937-1-3	#3 40'PIPELINE	<10	10
6937-1-4	#4 60'ENDPIPE	<10	10
6937-1-5	#5TANKPITBOTTM	1100	10
6937-1-6	#6SIDEWALL7.5'	<10	10
6937-1-7	#7EXCAVBOTTM8'	<10	10
6937-1-8	#8SIDEWALL8.5'	<10	10
6937-1-9	#9TOPSOIL0-[illegible]	<10	10
6937-1-10	#10TOPSOIL3570	60	10

G. Smith
Analyst

[illegible]

TPH AS DIESEL
ANAYSIS RESULTS REPORT

Lab Name: TMA/Norcal
Client: GARY TOMPKINS & ASSOCIATES
Matrix: soil

Date Received: 12 1-18-90
Date Analyzed: 1- 2-8-90

Analysis/Method: MOD-8015 FULX

TMA/Norcal ID	Client ID	Diesel (mg/kg)	Detection Limits (mg/kg)
6937-1-1	#1	<10 mg/kg	10 mg/kg
6937-1-2	#2	<10 mg/kg	10 mg/kg
6937-1-3	#3	11.2 mg/kg	10 mg/kg
6937-1-4	#4	4623 mg/kg	10 mg/kg
6937-1-5	#5	<10 mg/kg	10 mg/kg
6937-1-6	#6	62.8 mg/kg	10 mg/kg
6937-1-7	#7	<10 mg/kg	10 mg/kg
6937-1-8	#8	<10 mg/kg	10 mg/kg
6937-1-9	#9	<10 mg/kg	10 mg/kg
6937-1-10	#10	<10 mg/kg	10 mg/kg

Renée Doherty
Analyst

Data Release Authorized By

TMA/Norcal ID: 6937-1
Page 4
February 14, 1990

TABLE III

UNITS = mg/Kg

TMA/Norcal ID	Client ID	Petroleum * Hydrocarbons	Detection Limit
6937-1-1	0' at excav.	<70	70
6937-1-2	20' under pipe	<70	70
6937-1-3	40' under pipe	250	70
6937-1-4	60' end	160	70
6937-1-5	tank pit bottom	7300	70
6937-1-6	sidewall 41'	<70	70
6937-1-7	excav. bottom	970	70
6937-1-8	sidewall 80'	<70	70
6937-1-9	topsoil 0'- 30'	84	70
6937-1-10	topsoil 35'- 70'	170	70

* EPA Method 9071, Oil & Grease including Petroleum Hydrocarbons

TMA/Norcal ID: 6937-1
Page 3
February 14, 1990

TABLE II

TMA/Norcal ID:	6937-1-10	Detection	EPA
Client ID:	Topsoil 35'-70'	Limit	Method
UNITS: mg/Kg			
Antimony	<30 *	30	6010
Arsenic	<10	10	7060
Barium	290	3	6010
Beryllium	<1	1	6010
Cadmium	<2 *	2	6010
Chromium	57	2	6010
Cobalt	17	3	6010
Copper	26	3	6010
Lead	26	7	6010
Mercury	<0.3	0.3	7471
Molybdenum	<2 *	2	6010
Nickel	84 *	7	6010
Selenium	<5	5	7740
Silver	<3	3	6010
Thallium	<30	30	6010
Vanadium	45	5	6010
Zinc	74	4	6010

* Poor spike recovery indicates possible matrix interference.

TMA/Norcal ID: 6937-1
Page 2
February 14, 1990

TABLE I

TMA/Norcal ID:	6937-1-9	Detection	EPA
Client ID:	Topsoil 0'-30'	Limit	Method
UNITS: mg/Kg			
Antimony	<30	30	6010
Arsenic	<1	1	7060
Barium	370	3	6010
Beryllium	<1	1	6010
Cadmium	<2	2	6010
Chromium	62	2	6010
Cobalt	14	3	6010
Copper	33	3	6010
Lead	22	7	6010
Mercury	<0.3	0.3	7471
Molybdenum	<2	2	6010
Nickel	64	7	6010
Selenium	<0.5	0.5	7740
Silver	<3	3	6010
Thallium	<30	30	6010
Vanadium	49	5	6010
Zinc	89	4	6010

APPENDIX II

SCS Engineers Reports

1.) Tank Removal
2.) Groundwater Wells

Environmental Consultants

6761 Sierra Court
Suite D
Dublin, CA 94568

415 829-0661
FAX 415 829-5493

SCS ENGINEERS

March 19, 1990
File No. 0389060.01

Mr. Verl Rothlisberger
Verl's Construction, Inc.
753 Peralta Avenue
San Leandro, California 94577

Subject: Groundwater Investigation
342 - 105th Avenue
Oakland, California

Dear Mr. Rothlisberger:

SCS Engineers is pleased to present this report of the groundwater investigation performed at the site located at 342 - 105th Avenue in Oakland, California.

This report has been prepared specifically for Verl's Construction, Inc. with specific application to hazardous waste site investigations. The report has been prepared in accordance with the care and skill generally exercised by reputable professionals under similar circumstances, in this or similar localities. No warranties, either expressed or implied, are made to the advice presented. Verl's Construction, Inc. shall not use the report for any other purpose often than for which it was prepared.
If you have any questions, please contact ~~either~~ of the undersigned at (415) 829-0661.

Sincerely,

D. Edward MacDaniel
Associate Staff Geologist
SCS Engineers

DEM/KAM/sar

Kent A. Madenwald, P.E., R.E.A., R.E.P.
Project Manager
SCS Engineers

John P. Cummings, Ph.D, R.E.A., R.E.P.
Office Director
SCS Engineers

CONTENTS

INTRODUCTION

SCS Engineers was retained by Verl's Construction, Inc. to perform a subsurface investigation of soil and groundwater subsequent to the removal of an underground storage tank removal at 342 - 105th Avenue in Oakland, California (see Plate 1, Appendix A). Three soil borings were made and groundwater monitoring wells were installed in the borings. Soil samples from the borings and a water sample from each well were sent to a State-certified laboratory and were analyzed for hydrocarbon contamination.

II FIELD METHODS

On February 22 and February 23, 1990, Mr. Ed MacDaniel supervised the drilling of three borings at 342 - 105th Avenue in Oakland, California. Groundwater monitoring wells were installed in the borings. Plate 2 (Appendix A) is a site plan detailing the positions of the three monitoring wells. These wells were developed on February 23, February 26, and March 5, 1990.

Datum Exploration of Pittsburg, California performed the drilling and installation of the monitoring wells. Alameda County well permits were obtained on February 16, 1990. Copies of the well permit and driller's reports are enclosed in Appendix B.

Soil Borings

Three soil borings were made to a depth of 25 feet using a CME 45 drilling unit with 8 1/2 inch augers and a HSN 8 inch bit and with 10 1/2 inch augers. Prior to the drilling of these wells, the auger sections were cleaned using hot water and steam to volatilize any remnant hydrocarbon contaminants that may have been present on the augers.

Soil samples were obtained at five foot intervals during the drilling of the borings. The samples were taken using two inch I.D. Spit Spoon Modified California Samplers loaded with brass sleeves. The samples forced into the brass sleeves were examined and then sealed with aluminum foil, plastic end caps and tape. They were then placed in cold storage for transport to a State-certified laboratory. A boring log for each well was recorded in the field during drilling and documents sample localities, subsurface sedimentology, depth to groundwater and well construction details. The boring logs are in Appendix B.

Well Construction

The three monitoring wells, GW-1, GW-2, And GW-3, were constructed using four inch schedule 40 PVC flush jointed casing, blank and slotted sections. The bottom of each well was capped using four inch end caps. The annular space of the wells was filled with #3 Lonestar sand to a depth of one foot above the slotted casing sections. A foot of bentonite seal was placed on top of the sand. The remaining space was filled and sealed using cement grout. A forty-eight inch locking security riser was cemented into place above each well head. A waterproof expansion plug seals the upper well opening

Well Development and Water Sampling

On February 23 and February 26, 1990, Mr. MacDaniel developed wells GW-1 and GW-2 using a submersible pump. Approximately 40 gallons from GW-1 and 35 gallons from GW-2 were purged and stored in 55 gallon drums which remained on-site pending water sample analyses. On February 26, Mr. MacDaniel attempted to develop GW-3. Due to an extremely slow recovery, it was not developed at the same time as the other wells. It was believed that the proper extremely stiff clay drilled through had smeared along the length of the boring, preventing the well from proper recovery. Testing and Technology (TAT) was contracted to perform a pump and surge teachnique to develop Well No. GW-3.

Monitoring well GW-3 was developed on March 6, 1990 by TAT (see Appendix D). Because of the low rate of recovery, clean fresh water was inserted into the well. Then the well was surged, breaking up the clay. The water and clay were then pumped out of the well. Approximately 520 gallons of water was pumped into and out of the well. This method had received prior approval from Alameda County Health Agency prior to beginning the development procedure.

Water samples were collected on February 26, February 27, February 28, and March 1, and March 8, 1990 using disposable bailers. For each well, the water samples were placed into 2-40 milliliter VOA's and two 1 liter amber jars or one 40 milliliter VOA and one 1 liter amber jar. The samples were labeled and placed in cold storage for shipment to a State-certified laboratory.

Subsurface Conditions

Groundwater monitoring well one (GW-1) was drilled through a clay for 17 1/2 feet before encountering a very clay-rich sand. This sand extended to 23 feet below the surface at which point a sandy clay was found. This clay was present for rest of the well's depth.

GW-2 extends through a dark clay for 16 feet, which was followed by 22 feet of a clay-rich sand. From 22 feet to 25 feet below the surface, a silty clay was noticed.

GW-3 was drilled thorough a 15 1/2 foot section of clay which had a sand content that increased with depth. At 15 1/2 feet below the surface, a 6 1/2 foot layer of a clay-rich sand was drilled through. From 22 feet to 25 feet, a clay was noted.

Surveying of Wells

On March 12, 1990, Mr. MacDaniel and Mr. Don McClenagan visited the site. Using surveying equipment, they determined the elevations of the well casings for GW-1, GW-2 and GW-3. As no benchmark from Caltrans or East Bay Municipal Utilities District was found, the relative elevations of the wells had to be determined at this time. It was assumed that the elevation of the well casing for GW-2 was 50 feet. The relative elevations of GW-1 and GW-2 were then determined based upon this assumption. The depth to the groundwater from the top of the well casing for each well was also determined. The relative elevations of the groundwater was then calculated for each well (see Plate 3 Appendix A). Using a geometric method, the down-gradient direction of the groundwater was determined. Plate 4 (Appendix A) depicts the down-gradient direction

of the groundwater. Table 1 organizes the data: water depth and the relative elevations of the well casings and groundwater.

III SOIL AND WATER ANALYSES

The soil and water samples were sent a State-certified laboratory. The soil samples were to be analyzed using EPA method 8015 for diesel, EPA method 8270 for extractable organics, and method 503 E for total oil and grease. The water samples were analyzed using EPA method 8015 for diesel, EPA method 625 for extractable organics, and method 503E for total oil and grease. The results are summarized in Table 2. All of the results of the analyses and the chain of custody forms are in Appendix C.

IV CONCLUSIONS

The levels of contamination in the soil and groundwater are below levels where any further action will be required. Because of this SCS Engineers recommends that no more soil need be excavated for remediation and that the groundwater will not have to be remediated.

TABLE 1
GROUNDWATER DEPTHS AND RELATIVE ELEVATION
OF WELL CASINGS AND GROUNDWATER (In Feet)

	Groundwater Depth (From Top of Casing)	Relative Elevation Top of Well Casing	Groundwater
GW-1	11.02	49.96	38.94
GW-2	10.41	50.00	39.59
GW-3	12.32	50.20	37.88

TABLE 2

ANALYTICAL RESULTS OF THE
SOIL AND GROUNDWATER SAMPLES

Listing compounds present

Soil

Sample No.	8015-D	8270		
		Di-N-butylphthalate	Bis (2-ethylhexyl)phthalate	Di-N-octylphthalate
GW1-5	ND	710 ppb	1500 ppb	ND
GW1-10	ND	11000 ppb	480 ppb	34 ppb
GW1-15	ND	12000 ppb	680 ppb	34 ppb
GW1-20	ND	5100 ppb	540 ppb	73 ppb
GW1-25	ND	100 ppb	3500 ppb	ND
GW2-5	ND	470 ppb	140 ppb	ND
GW2-10	ND	290 ppb	180 ppb	ND
GW2-15	ND	240 ppb	3100 ppb	ND
GW2-20	ND	5900 ppb	ND	ND
GW2-25	ND	160 ppb	51 ppb	ND
GW3-5	ND	460 ppb	670 ppb	85 ppb
GW3-10	ND	120 ppb	2600 ppb	98 ppb
GW3-15	ND	140 ppb	250 ppb	ND
GW3-20	ND	580 ppb	780 ppb	ND
GW3-25	ND	190 ppb	320 ppb	ND

	503E
GW1-5	ND
GW1-10	ND
GW1-15	ND
GW1-20	ND
GW1-25	ND
GW2-5	ND

ND = Not Detected

Detection Limits:
8015-Diesel - 1000 ppb
503 - 10 ppm
Di-N-butyphthalate - 20 ppb
Bis (2-ethylehhexyl)phthalate - 20
Di-N-octylphthalate - 30 ppb

TABLE 2 (cont'd)

Soil

Sample No.	503E
GW-10	ND
GW2-15	ND
GW2-20	ND
GW2-25	ND
GW3-5	ND
GW3-10	ND
GW3-15	ND
GW3-20	ND
GW3-25	ND

Detction Level: 503E - 10 ppm

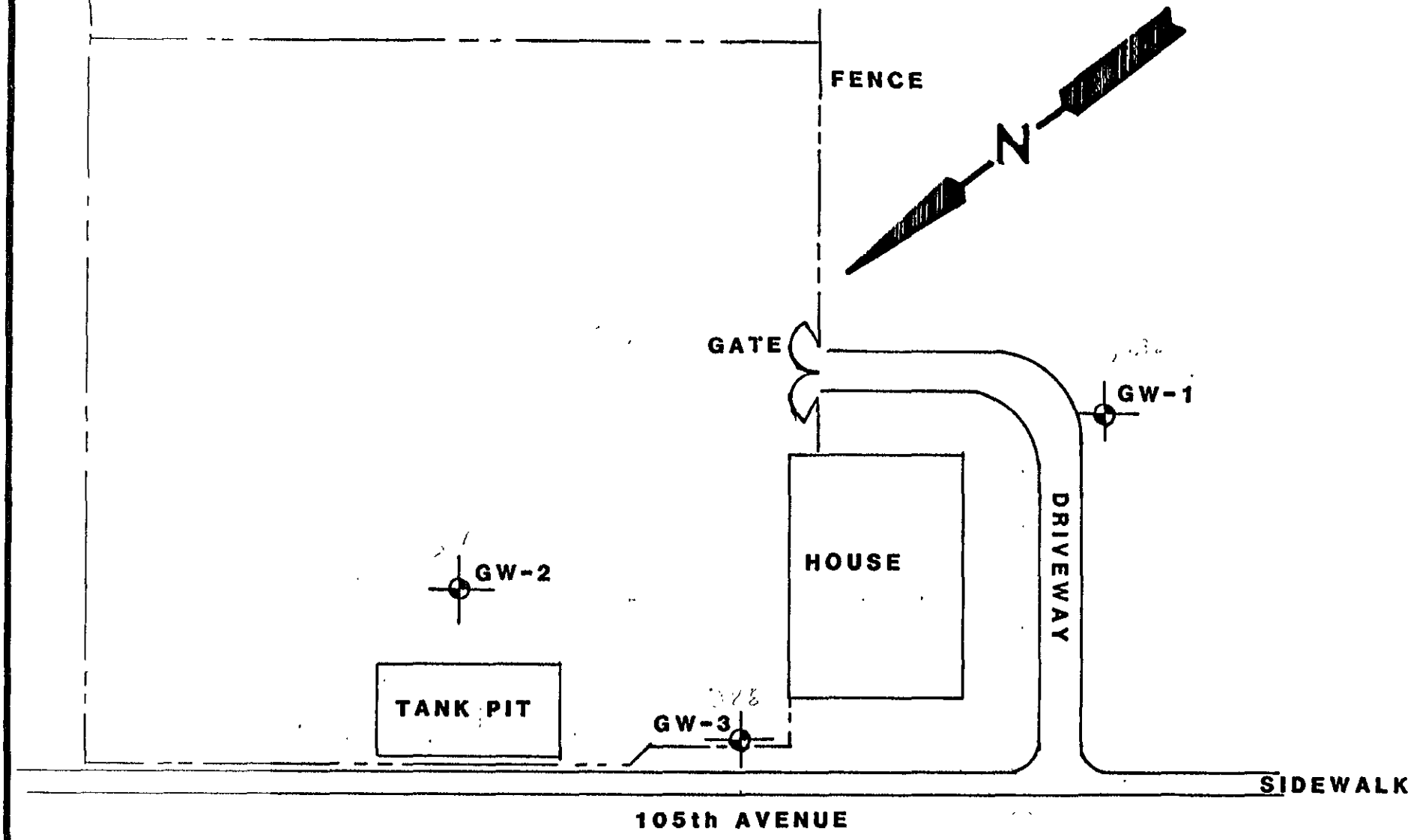
Water

	8015-D	625 Bis(2-ethylhexyl)phthalate	503E
GW1-1W	ND	ND	-
GW2-1W	ND	ND	-
GW3-1W	ND	75 ppb	ND

Detection Levels: 8015 - Diesel - 0.5 ppb
Bis(2-ethylhexyl)phthalate - 50 ppb
503E - 0.5 ppb

APPENDIX A

Plates



GROUNDWATER MONITORING WELL

SCALE: 1" = 30'

SCS ENGINEERS
STEARNS CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
6761-D SIERRA COURT
DUBLIN, CA 94568

SITE PLAN
342-105th Avenue
Oakland, California

Project No. 0389060.01

Date: 3-13-90

Plate 2

APPENDIX B

Well Permit
Driller's Reports
Boring Logs

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94566 • (415) 484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

(1) LOCATION OF PROJECT 342 105th Avenue
Oakland, Calif. (vacant lot)

(2) CLIENT
Name Verl's Construction
Address 753 Peralta Phone 415 568-1234
City San Leandro Zip 94577

(3) APPLICANT
Name Don McClenagan
SCS Engineers
Address 6761-D Sierra Ct Phone 415 829 0661
City ~~Sierra~~ Dublin Zip 94568

(4) DESCRIPTION OF PROJECT
Water Well Construction ___ Geotechnical Investigation
Cathodic Protection ___ General
Well Destruction ___ Contamination X

(5) PROPOSED WATER WELL USE
Domestic ___ Industrial ___ Irrigation ___
Municipal ___ Monitoring X Other ___

(6) PROPOSED CONSTRUCTION
Drilling Method:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

DRILLER'S LICENSE NO. 480802

WELL PROJECTS
Drill Hole Diameter 10.5 in. Maximum
Casing Diameter 4 in. Depth 25 ft.
Surface Seal Depth 5 ft. Number 3

GEOTECHNICAL PROJECTS
Number of Borings ___ Maximum
Hole Diameter ___ in. Depth ___ ft.

(7) ESTIMATED STARTING DATE Feb 22, 1990
ESTIMATED COMPLETION DATE Feb 23, 1990

(8) I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S [signature]

FOR OFFICE USE

PERMIT NUMBER 90120
LOCATION NUMBER ___

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as arrive at the Zone 7 office five days prior proposed starting date.
2. Submit to Zone 7 within 60 days after complet of permitted work the original Department Water Resources Water Well Drillers Report equivalent for well projects, or drilling l and location sketch for geotechnical projects.
3. Permit is void if project not begun within days of approval date.

(B.) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal industrial wells or 20 feet for domestic, irr tion, and monitoring wells unless a lesser d is specially approved.

C. GEOTECHNICAL. Backfill bore hole with compacted tings or heavy bentonite and upper two feet with pacted material. In areas of known or suspe contamination, tremied cement grout shall be used place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with conc placed by tremie.

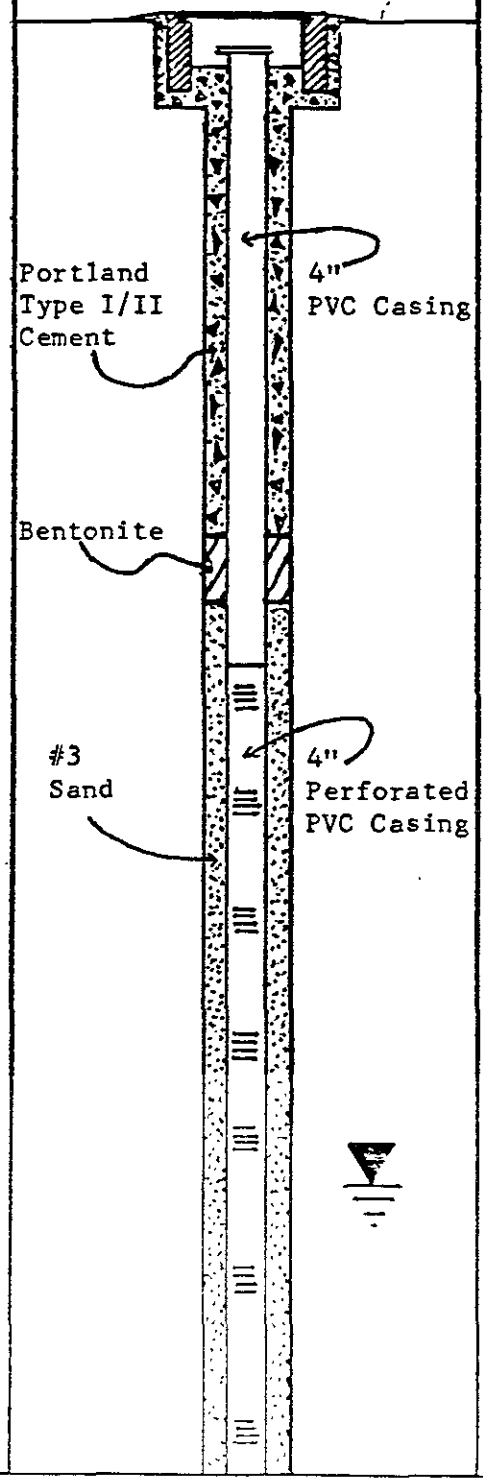
E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 16 Feb
Wyman Hong

BORING LOG

Project Verl's - 105th Avenue
Location 342 - 105th Ave, Oakland
Job # 0389060.01
Geologist/Engineer Ed MacDaniel
Drill Agency Datum Exploration

Hole/Well # GW-1
Diameter of Drill Hole 8"
Total Depth of Hole 25'
Date Started 2/22/90
Date Completed 2/22/90



SOS ENGINEERS

BORING LOG

Project Verl's - 105th Avenue
Location 342 - 105th Ave, Oakland
Job # 0389060.01
Geologist/Engineer Ed MacDaniel
Drill Agency Datum Exploration

Hole/Well # GW-1
Diameter of Drill Hole 8"
Total Depth of Hole 25'
Date Started 2/22/90
Date Completed 2/22/90

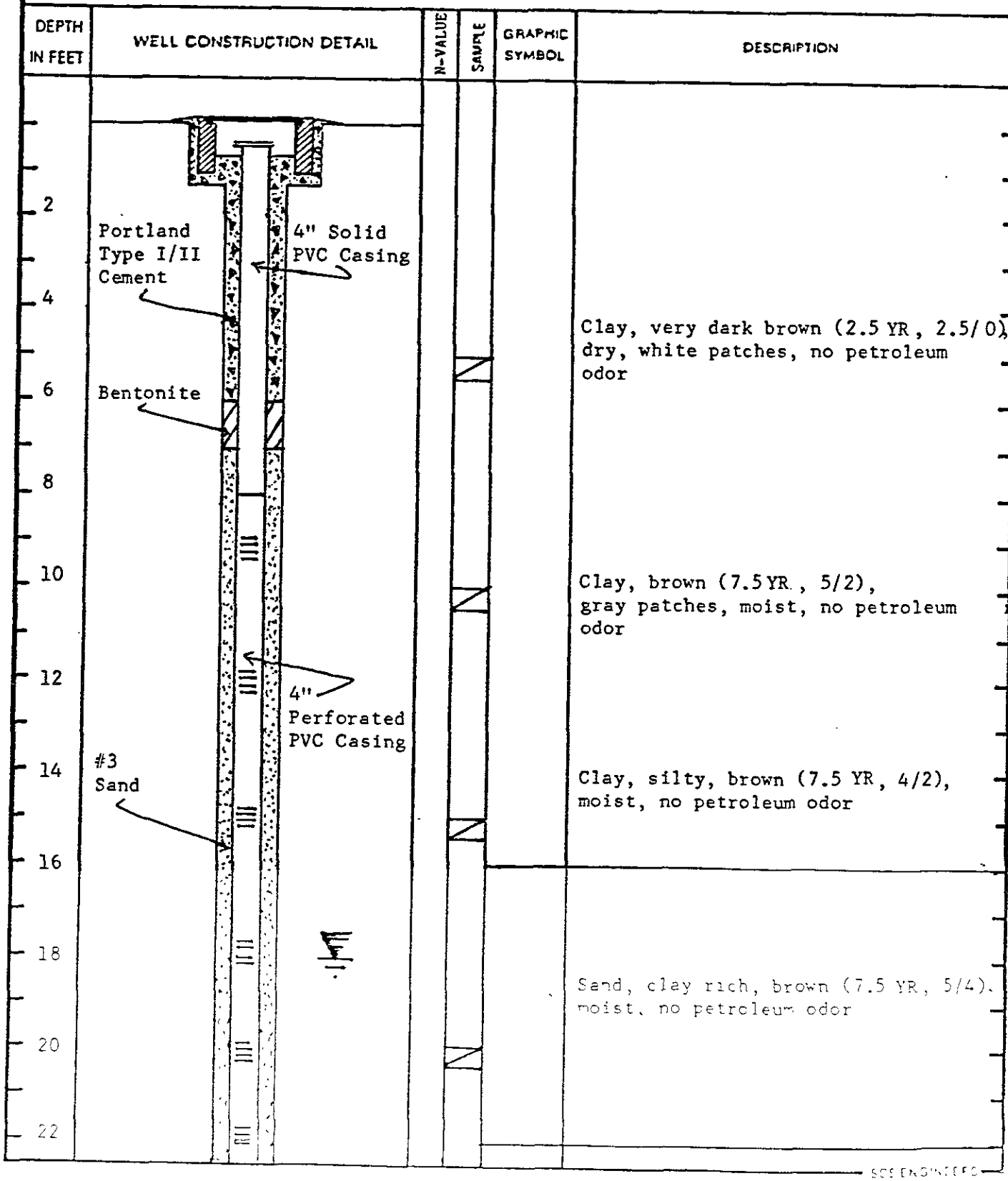
DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
20					
22					
24	End Cap				
26					Clay, sand-rich, gray brown (10 YR, 5/2), moist, no petroleum odor

SOS ENGINEERS

BORING LOG

Project Verl's - 105th Avenue
Location 342 - 105th Ave, Oakland
Job # 0389060.01
Geologist/Engineer Ed MacDaniel
Drill Agency Datum Exploration

Hole/Well # GW-2
Diameter of Drill Hole 10½"
Total Depth of Hole 25'
Date Started 2-22-90
Date Completed 2-22-90



BORING LOG

Project Verl's - 105th AVenue
Location 342 - 105th Ave, Oakland
Job # 0389060.01
Geologist/Engineer Ed MacDaniel
Drill Agency Datum Exploration

Hole/Well # GW-2
Diameter of Drill Hole 10½"
Total Depth of Hole 25'
Date Started 2-22-90
Date Completed 2-22-90

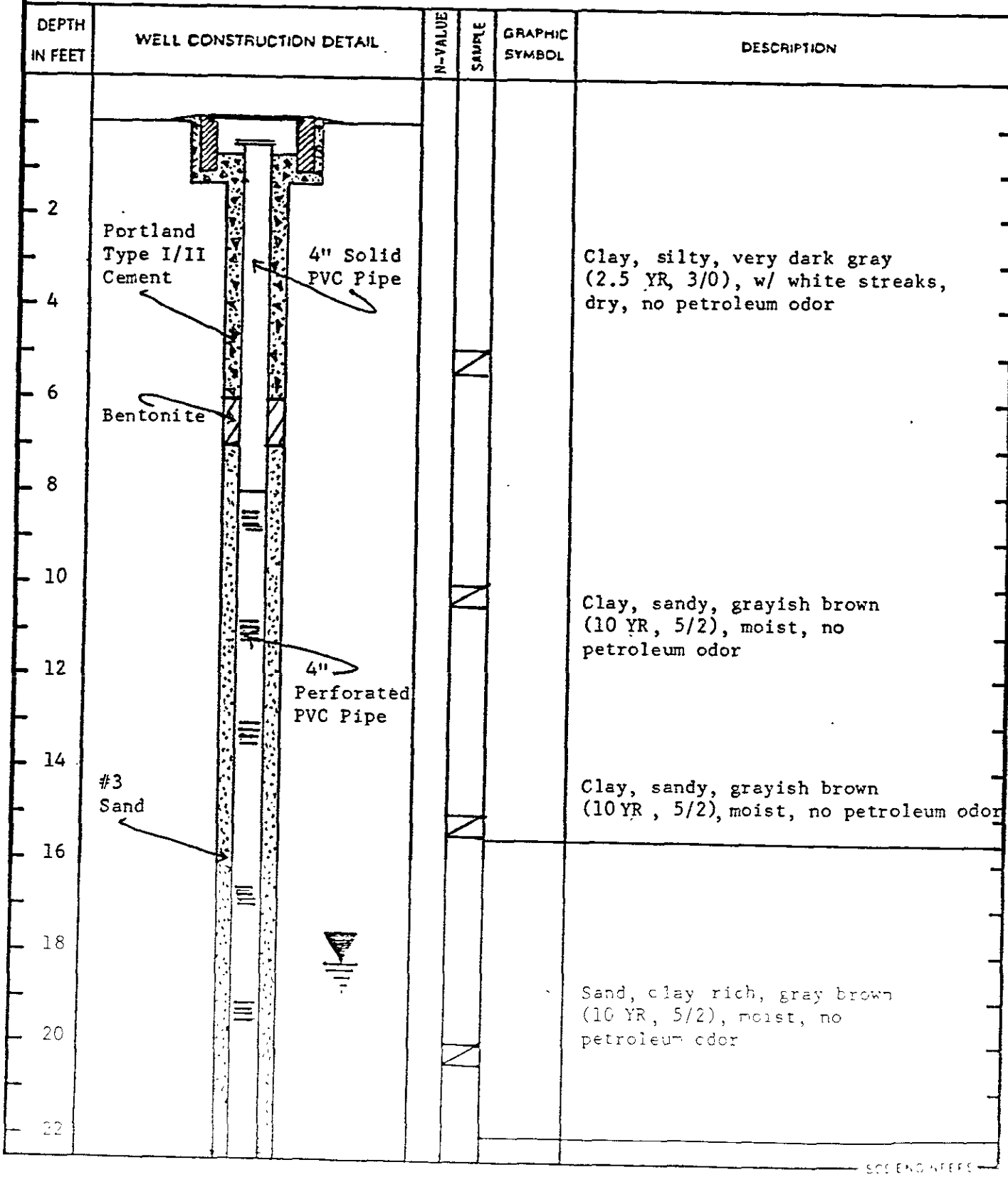
DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
20					
22					
24	End Cap				Clay, silty, gray (7.5 YR , 4/0), moist, no petroleum odor
26					

SCS ENGINEERS

BORING LOG

Project Verl'a - 105th Avenue
Location 342 - 105th AVe, Oakland
Job # 0389060.01
Geologist/Engineer Ed MacDaniel
Drill Agency Datum Exploration

Hole/Well # GW-3
Diameter of Drill Hole 10½"
Total Depth of Hole 25'
Date Started 2-23-90
Date Completed 2-23-90



BORING LOG

Project Verl's - 105th Avenue
Location 342 - 105th Ave, Oakland
Job # 0389060.01
Geologist/Engineer Ed MacDaniel
Drill Agency Datum Exploration

Hole/Well # GW-3
Diameter of Drill Hole 10½"
Total Depth of Hole 25'
Date Started 2-23-90
Date Completed 2-23-90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
20					
22					
24	End Cap				Clay, dark gray brown (10YR,4/2), w/ medium gray and medium brown patches, moist, no petroleum odor
26					

APPENDIX III

SJV Consultants GW Sampling

REPORT ON SOIL AND WATER SAMPLING

105th Street Site
Hayward, California

for

Mayer Properties, Inc.
753 Peralta Avenue
San Leandro, California 94577

by

SJV Consultants
P.O. Box 7418
Fremont, California 94537

April 21, 1991

File No's.

0190002 and 0191006

Kent A Madenwald, PE, RG

John N. Alt, CEG 1136

REGISTERED GEOLOGIST
JOHN N. ALT
No 1136
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

REPORT ON SOIL AND WATER SAMPLING

Background

A waste oil tank was removed from the northern edge of the property and contaminated soil was found below and adjacent to the tank Verl's Construction Co , performed some preliminary trenching and determined the approximate perimeter of the contaminant plume in the soil Further work was accomplished by SCS Engineers when three (3) monitoring wells were installed and developed Water samples indicated various degrees of contamination In the effort to remediate the contaminated soil, monitoring well MW-3 was destroyed The contaminated soil was removed from the excavation and is presently being bioremediated on the site. Clean soil, obtained from another part of the property was used as backfill for the excavated area

The need for the present sampling event was per the requirements of the Alameda County Department of Health which wanted confirmation that the soil that was put into the excavation was clean. Also, the ACDH requestec that the quarterly sampling event be initiated

Soil Sampling

Soil samples were collected at locations selected by Mr Barney Chan, of the Alameda Department of Health (See Plate 1) A backhoe was used to dig to the appropriate depth and then a sample of soil was brought to the surface and the brass tube pounded into the soil. Four locations were chosen and labeled S-1 thru S-4 The following are depths and lithologies for the samples:

S-1	20 feet	Yellow clay with organic matter, no odor
S-2	20 feet	Yellow-gray clay, no odor
S-3	20 feet	Gray clay, no odor
S-4	12 feet	Sand, fine grained, fine gravel, gray, unconsolidated

Sample Preservation

All soil samples were collected in 2" x 6" sterilized brass tubes The ends of the tubes were sealed with aluminum foil and covered with plastic caps The caps were wrapped with tape to prevent any leakage from the sample tubes Labels were put on the tubes noting the sample number, date, sampler, depth and analysis requested The COC form was filled out in the field The samples were placed in a cooler with ice & Blue-ice Samples were then frozen prior to receipt at the laboratory

Soil and Water Sampling Report (continued)

Soil Analyses

Four (4) soil samples were analyzed for Base Neutral and Acid Extractables (EPA Method 8270) and all were "ND" (See Appendix I).

Four (4) soil samples were analyzed for TPHd and TPHg/BTXE (EPA Methods 5030, 8020 and 3550) and all samples were "ND" (See Appendix I)

Four soil samples were analyzed for Total Oil and Grease (EPA Method 5520EF) and samples S-1, S-2, S-3 were "ND Soil sample S-4 was noted at 140 ppm (See Appendix I)

Water Sampling

Two (2) water samples were taken from Monitoring Wells 1 and 2 on April 5, 1991 Static water level of well No 2 (before purging) was 9'-8" from the low point of the tubing (western edge) Approximately 30 gallons were purged from the well and 16 minutes were required for the well to reach equilibrium Well No 1 static water level was at 9'-8 8" (before purging) Water recovery was extremely slow and 1 5 hours were required to obtain 15 gallons of purge water Neither water samples exhibited any sheen or odor The water samples were placed in 40 ml. vials and four (4) 1 liter amber jars. All sample containers were labeled in the field and proper notation made on the COC form.

Water Analyses

Two (2) water samples were analyzed for Base Neutral and Acid Extractables (EPA Method 625) All results were "ND" (See Appendix II)

Two (2) water samples were analyzed for TPHd and TPHg/BTXE (EPA Methods 5030 and 8020) All results were "ND" (See Appendix II)

Two (2) water samples were analyzed for TPHd (EPA Method 3510) All results were "ND" (See Appendix II).

Two (2) water samples were analyzed for Total Oil and Grease (EPA Method 5520EF) All results were "ND" (See Appendix II)

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 1257
STOCKTON, CA 95201-1257

Workorder # : 9104066
Date Received : 04/08/91
Project ID : 0190002.00
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9104066- 1	MW-1	WATER	04/05/91	8270 625
9104066- 2	MW-2	WATER	04/05/91	8270 625

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 1257
STOCKTON, CA 95201-1257

Workorder # : 9104066
Date Received : 04/08/91
Project ID : 0190002.00
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- No QA/QC problems encountered.

Paul Gowan 4-16-91
Department Supervisor Date

Laura Mayw 41691
Chemist Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID	: 0190002.	Anametrix ID	: 9104066-01
Sample ID	: MW-1	Analyst	: UM
Matrix	: WATER	Supervisor	: PG
Date Sampled	: 4/ 5/91		
Date Extracted	: 4/ 9/91		
Amount Extracted	: 1000.0 mL		
Date Analyzed	: 4/12/91	Dilution Factor	: 1.00
Instrument ID	: F2	Conc. Units	: ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	PHENOL	10.	ND	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	ND	U
95-57-8	2-CHLOROPHENOL	10.	ND	U
541-73-1	1,3-DICHLOROBENZENE	10.	ND	U
106-46-7	1,4-DICHLOROBENZENE	10.	ND	U
100-51-6	BENZYL ALCOHOL	10.	ND	U
95-50-1	1,2-DICHLOROBENZENE	10.	ND	U
95-48-7	2-METHYLPHENOL	10.	ND	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	ND	U
106-44-5	4-METHYLPHENOL	10.	ND	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	ND	U
67-72-1	HEXACHLOROETHANE	10.	ND	U
98-95-3	NITROBENZENE	10.	ND	U
78-59-1	ISOPHORONE	10.	ND	U
88-75-5	2-NITROPHENOL	10.	ND	U
105-67-9	2,4-DIMETHYLPHENOL	10.	ND	U
65-85-0	BENZOIC ACID	50.	ND	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	ND	U
120-83-2	2,4-DICHLOROPHENOL	10.	ND	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	ND	U
91-20-3	NAPHTHALENE	10.	ND	U
106-47-8	4-CHLOROANILINE	10.	ND	U
87-68-3	HEXACHLOROBUTADIENE	10.	ND	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	ND	U
91-57-6	2-METHYLNAPHTHALENE	10.	ND	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	ND	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	ND	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	ND	U
91-58-7	2-CHLORONAPHTHALENE	10.	ND	U
88-74-4	2-NITROANILINE	50.	ND	U
131-11-3	DIMETHYLPHTHALATE	10.	ND	U
208-96-8	ACENAPHTHYLENE	10.	ND	U
606-20-2	2,6-DINITROTOLUENE	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID : 0190002.
Sample ID : MW-1
Matrix : WATER
Date Sampled : 4/ 5/91
Date Extracted : 4/ 9/91
Amount Extracted : 1000.0 mL
Date Analyzed : 4/12/91
Instrument ID : F2

Anametrix ID : 9104066-01
Analyst : UH
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
99-09-2	3-NITROANILINE	50.	ND	U
83-32-9	ACENAPHTHENE	10.	ND	U
51-28-5	2,4-DINITROPHENOL	50.	ND	U
100-02-7	4-NITROPHENOL	50.	ND	U
132-64-9	DIBENZOFURAN	10.	ND	U
121-14-2	2,4-DINITROTOLUENE	10.	ND	U
84-66-2	DIETHYLPHTHALATE	10.	ND	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	ND	U
86-73-7	FLUORENE	10.	ND	U
100-01-6	4-NITROANILINE	50.	ND	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	ND	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	ND	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	ND	U
118-74-1	HEXACHLOROBENZENE	10.	ND	U
87-86-5	PENTACHLOROPHENOL	50.	ND	U
85-01-8	PHENANTHRENE	10.	ND	U
120-12-7	ANTHRACENE	10.	ND	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	ND	U
206-44-0	FLUORANTHENE	10.	ND	U
129-00-0	PYRENE	10.	ND	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	ND	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	ND	U
56-55-3	BENZO(A)ANTHRACENE	10.	ND	U
218-01-9	CHRYSENE	10.	ND	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	ND	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	ND	U
205-99-2	BENZO(B)FLUORANTHENE	10.	ND	U
207-08-9	BENZO(K)FLUORANTHENE	10.	ND	U
50-32-8	BENZO(A)PYRENE	10.	ND	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	ND	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	ND	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	ND	U
62-75-9	N-NITROSODIMETHYLAMINE	10.	ND	U
4165-61-1	ANILINE	10.	ND	U
103-33-3	AZOBENZENE	10.	ND	U
92-87-5	BENZIDINE	50.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID	: 0190002.	Anametrix ID	: 9104066-02
Sample ID	: MW-23	Analyst	: UM
Matrix	: WATER	Supervisor	: PG
Date Sampled	: 4/ 5/91		
Date Extracted	: 4/ 9/91		
Amount Extracted	: 1000.0 mL		
Date Analyzed	: 4/12/91	Dilution Factor	: 1.00
Instrument ID	: F2	Conc. Units	: ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	PHENOL	10.	ND	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	ND	U
95-57-8	2-CHLOROPHENOL	10.	ND	U
541-73-1	1,3-DICHLOROBENZENE	10.	ND	U
106-46-7	1,4-DICHLOROBENZENE	10.	ND	U
100-51-6	BENZYL ALCOHOL	10.	ND	U
95-50-1	1,2-DICHLOROBENZENE	10.	ND	U
95-48-7	2-METHYLPHENOL	10.	ND	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	ND	U
106-44-5	4-METHYLPHENOL	10.	ND	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	ND	U
67-72-1	HEXACHLOROETHANE	10.	ND	U
98-95-3	NITROBENZENE	10.	ND	U
78-59-1	ISOPHORONE	10.	ND	U
88-75-5	2-NITROPHENOL	10.	ND	U
105-67-9	2,4-DIMETHYLPHENOL	10.	ND	U
65-85-0	BENZOIC ACID	50.	ND	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	ND	U
120-83-2	2,4-DICHLOROPHENOL	10.	ND	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	ND	U
91-20-3	NAPHTHALENE	10.	ND	U
106-47-8	4-CHLOROANILINE	10.	ND	U
87-68-3	HEXACHLOROBUTADIENE	10.	ND	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	ND	U
91-57-6	2-METHYLNAPHTHALENE	10.	ND	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	ND	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	ND	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	ND	U
91-58-7	2-CHLORONAPHTHALENE	10.	ND	U
88-74-4	2-NITROANILINE	50.	ND	U
131-11-3	DIMETHYLPHTHALATE	10.	ND	U
208-96-8	ACENAPHTHYLENE	10.	ND	U
606-20-2	2,6-DINITROTOLUENE	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID	: 0190002.	Anametrix ID	: 9104066-02
Sample ID	: MW-2	Analyst	: JH
Matrix	: WATER	Supervisor	: PG
Date Sampled	: 4/ 5/91		
Date Extracted	: 4/ 9/91		
Amount Extracted	: 1000.0 mL		
Date Analyzed	: 4/12/91	Dilution Factor	: 1.00
Instrument ID	: F2	Conc. Units	: ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
99-09-2	3-NITROANILINE	50.	ND	U
83-32-9	ACENAPHTHENE	10.	ND	U
51-28-5	2,4-DINITROPHENOL	50.	ND	U
100-02-7	4-NITROPHENOL	50.	ND	U
132-64-9	DIBENZOFURAN	10.	ND	U
121-14-2	2,4-DINITROTOLUENE	10.	ND	U
84-66-2	DIETHYLPHTHALATE	10.	ND	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	ND	U
86-73-7	FLUORENE	10.	ND	U
100-01-6	4-NITROANILINE	50.	ND	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	ND	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	ND	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	ND	U
118-74-1	HEXACHLOROBENZENE	10.	ND	U
87-86-5	PENTACHLOROPHENOL	50.	ND	U
85-01-8	PHENANTHRENE	10.	ND	U
120-12-7	ANTHRACENE	10.	ND	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	ND	U
206-44-0	FLUORANTHENE	10.	ND	U
129-00-0	PYRENE	10.	ND	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	ND	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	ND	U
56-55-3	BENZO(A)ANTHRACENE	10.	ND	U
218-01-9	CHRYSENE	10.	ND	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	ND	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	ND	U
205-99-2	BENZO(B)FLUOROANTHENE	10.	ND	U
207-08-9	BENZO(K)FLUOROANTHENE	10.	ND	U
50-32-8	BENZO(A)PYRENE	10.	ND	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	ND	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	ND	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	ND	U
62-75-9	N-NITROSODIMETHYLAMINE	10.	ND	U
4165-61-1	ANILINE	10.	ND	U
103-33-3	AZOBENZENE	10.	ND	U
92-87-5	BENZIDINE	50.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : BLANK
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Extracted : 4/ 9/91
Amount Extracted : 1000.0 mL
Date Analyzed : 4/12/91
Instrument ID : F2

Anametrix ID : 2CB0409C01
Analyst : JM
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	PHENOL	10.	ND	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	10.	ND	U
95-57-8	2-CHLOROPHENOL	10.	ND	U
541-73-1	1,3-DICHLOROBENZENE	10.	ND	U
106-46-7	1,4-DICHLOROBENZENE	10.	ND	U
100-51-6	BENZYL ALCOHOL	10.	ND	U
95-50-1	1,2-DICHLOROBENZENE	10.	ND	U
95-48-7	2-METHYLPHENOL	10.	ND	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	10.	ND	U
106-44-5	4-METHYLPHENOL	10.	ND	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	10.	ND	U
67-72-1	HEXACHLOROETHANE	10.	ND	U
98-95-3	NITROBENZENE	10.	ND	U
78-59-1	ISOPHORONE	10.	ND	U
88-75-5	2-NITROPHENOL	10.	ND	U
105-67-9	2,4-DIMETHYLPHENOL	10.	ND	U
65-85-0	BENZOIC ACID	50.	ND	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	10.	ND	U
120-83-2	2,4-DICHLOROPHENOL	10.	ND	U
120-82-1	1,2,4-TRICHLOROBENZENE	10.	ND	U
91-20-3	NAPHTHALENE	10.	ND	U
106-47-8	4-CHLOROANILINE	10.	ND	U
87-68-3	HEXACHLOROBUTADIENE	10.	ND	U
59-50-7	4-CHLORO-3-METHYLPHENOL	10.	ND	U
91-57-6	2-METHYLNAPHTHALENE	10.	ND	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10.	ND	U
88-06-2	2,4,6-TRICHLOROPHENOL	10.	ND	U
95-95-4	2,4,5-TRICHLOROPHENOL	50.	ND	U
91-58-7	2-CHLORONAPHTHALENE	10.	ND	U
88-74-4	2-NITROANILINE	50.	ND	U
131-11-3	DIMETHYLPHTHALATE	10.	ND	U
208-96-8	ACENAPHTHYLENE	10.	ND	U
606-20-2	2,6-DINITROTOLUENE	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : BLANK
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Extracted : 4/ 9/91
Amount Extracted : 1000.0 mL
Date Analyzed : 4/12/91
Instrument ID : F2

Anametrix ID : 2CB0409C01
Analyst : MM
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
99-09-2	3-NITROANILINE	50.	ND	U
83-32-9	ACENAPHTHENE	10.	ND	U
51-28-5	2,4-DINITROPHENOL	50.	ND	U
100-02-7	4-NITROPHENOL	50.	ND	U
132-64-9	DIBENZOFURAN	10.	ND	U
121-14-2	2,4-DINITROTOLUENE	10.	ND	U
84-66-2	DIETHYLPHTHALATE	10.	ND	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	10.	ND	U
86-73-7	FLUORENE	10.	ND	U
100-01-6	4-NITROANILINE	50.	ND	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50.	ND	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	10.	ND	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	10.	ND	U
118-74-1	HEXACHLOROBENZENE	10.	ND	U
87-86-5	PENTACHLOROPHENOL	50.	ND	U
85-01-8	PHENANTHRENE	10.	ND	U
120-12-7	ANTHRACENE	10.	ND	U
84-74-2	DI-N-BUTYLPHTHALATE	10.	ND	U
206-44-0	FLUORANTHENE	10.	ND	U
129-00-0	PYRENE	10.	ND	U
85-68-7	BUTYLBENZYLPHTHALATE	10.	ND	U
91-94-1	3,3'-DICHLOROBENZIDINE	20.	ND	U
56-55-3	BENZO(A)ANTHRACENE	10.	ND	U
218-01-9	CHRYSENE	10.	ND	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10.	ND	U
117-84-0	DI-N-OCTYLPHTHALATE	10.	ND	U
205-99-2	BENZO(B)FLUORANTHENE	10.	ND	U
207-08-9	BENZO(K)FLUORANTHENE	10.	ND	U
50-32-8	BENZO(A)PYRENE	10.	ND	U
193-39-5	INDENO(1,2,3-CD)PYRENE	10.	ND	U
53-70-3	DIBENZ[A,H]ANTHRACENE	10.	ND	U
191-24-2	BENZO(G,H,I)PERYLENE	10.	ND	U
62-75-9	N-NITROSODIMETHYLAMINE	10.	ND	U
4165-61-1	ANILINE	10.	ND	U
103-33-3	AZOBENZENE	10.	ND	U
92-87-5	BENZIDINE	50.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID : 0190002.
Matrix : LIQUID

Anametrix ID : 9104066
Analyst : UH
Supervisor : PG

	SAMPLE ID	SU1	SU2	SU3	SU4	SU5	SU6	TOTAL OUT
1	BLANK	53	34	57	57	82	57	0
2	MW-1	56	36	58	57	88	57	0
3	MW-2	51	33	57	56	83	51	0
4	MW-2 MS	46	33	58	57	64	56	0
5	MW-2 MSD	48	33	58	56	71	56	0
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
SU1 = 2-FLUOROPHENOL	(10- 82)
SU2 = PHENOL-D5	(10- 72)
SU3 = NITROBENZENE-D5	(10-100)
SU4 = 2-FLUOROBIPHENYL	(10- 92)
SU5 = 2,4,6-TRIBROMOPHENOL	(15-139)
SU6 = TERPHENYL-D14	(10-110)

* Values outside of Anametrix QC limits

MATRIX SPIKE RECOVERY FORM -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID : 0190002.
Sample ID : MW-2
Matrix : WATER
Date Sampled : 4/ 5/91
Date Extracted : 4/ 9/91
Date Analyzed : 4/12/91
Instrument ID : F2

Anametrix ID : 9104066-02
Analyst : UH
Supervisor : PG

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	%REC LIMITS
PHENOL	100.	0.	37.	37	10- 82
2-CHLOROPHENOL	100.	0.	65.	65	27-114
1,4-DICHLOROBENZENE	50.	0.	32.	64	21- 86
N-NITROSO-DI-N-PROP.(1)	50.	0.	43.	85	29-139
1,2,4-TRICHLOROBENZENE	50.	0.	36.	72	14-104
4-CHLORO-3-METHYLPHENOL	100.	0.	77.	77	36-121
ACENAPHTHENE	50.	0.	42.	83	38-108
4-NITROPHENOL	100.	0.	22.	22	10- 58
2,4-DINITROTOLUENE	50.	0.	39.	79	44-121
PENTACHLOROPHENOL	100.	0.	33.	33	10-137
PYRENE	50.	0.	44.	89	44-125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	RPD LIMITS	%REC LIMITS
PHENOL	100.	37.	37	0	42	10- 82
2-CHLOROPHENOL	100.	68.	68	6	40	27-114
1,4-DICHLOROBENZENE	50.	30.	60	7	28	21- 86
N-NITROSO-DI-N-PROP.(1)	50.	42.	83	3	38	29-139
1,2,4-TRICHLOROBENZENE	50.	34.	67	7	28	14-104
4-CHLORO-3-METHYLPHENOL	100.	79.	79	1	42	36-121
ACENAPHTHENE	50.	41.	81	2	31	38-108
4-NITROPHENOL	100.	25.	25	12	50	10- 58
2,4-DINITROTOLUENE	50.	38.	76	3	38	44-121
PENTACHLOROPHENOL	100.	38.	38	12	50	10-137
PYRENE	50.	44.	88	0	31	44-125

* Value is outside of Anametrix QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 1257
STOCKTON, CA 95201-1257

Workorder # : 9104066
Date Received : 04/08/91
Project ID : 0190002.00
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9104066- 1	MW-1	WATER	04/05/91	TPHd
9104066- 2	MW-3	WATER	04/05/91	TPHd
9104066- 1	MW-1	WATER	04/05/91	TPHg/BTEX
9104066- 2	MW-3	WATER	04/05/91	TPHg/BTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 1257
STOCKTON, CA 95201-1257

Workorder # : 9104066
Date Received : 04/08/91
Project ID : 0190002.00
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl Balmer 4/13/91
Department Supervisor Date

Gary Voigt 4/12/91
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9104066
Matrix : WATER
Date Sampled : 04/05/91

Project Number : 0190002.00
Date Released : 04/12/91

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# MW-1 -01	Sample I.D.# MW-2 -02	Sample I.D.# 12B0410A BLANK
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND
% Surrogate Recovery		86%	80%	107%
Instrument I.D.		HP12	HP12	HP12
Date Analyzed		04/10/91	04/10/91	04/10/91
RLMF		1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method ~~8020~~ 602 & (4ft)
RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Garth Voigt 4/12/91
Analyst Date

Cheryl Burman 4/12/91
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9104066
Matrix : WATER
Date Sampled : 04/05/91
Date Extracted: 04/09/91

Project Number : 0190002.00
Date released : 04/12/91
Instrument I.D.: HP19

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9104066-01	MW-1	04/09/91	50	ND
9104066-02	MW-2	04/09/91	50	ND
DWBL040991	METHOD BLANK	04/09/91	50	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 50ug/L.
ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Garth Voigt 4/12/91
Analyst Date

Cheryl Beeman 4/12/91
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 3550 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD SPIKE
Matrix : REAGENT WATER
Date sampled : N/A
Date extracted: 04/09/91
Date analyzed : 04/09/91

Anametrix I.D. : SPK040991
Analyst : GU
Supervisor : CB
Date Released : 04/12/91

COMPOUND	SPIKE AMT. (ug/L)	MS (ug/L)	%REC MS	MSD (ug/L)	%REC MSD	RPD	%REC LIMITS
Diesel	500	350	70%	360	72%	3%	49-122

* Limits established by Anametrix, Inc.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 1257
STOCKTON, CA 95201-1257

Workorder # : 9104066
Date Received : 04/08/91
Project ID : 0190002.00
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9104066- 1	MW-1	WATER	04/05/91	5520BF
9104066- 2	MW-3	WATER	04/05/91	5520BF

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 1257
STOCKTON, CA 95201-1257

Workorder # : 9104066
Date Received : 04/08/91
Project ID : 0190002.00
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for this workorder.

April 12th 1991

Department Supervisor Date

4/12/91

Chemist Date

ANALYSIS DATA SHEET - TOTAL OIL AND GREASE
ANAMETRIX, INC. (408) 432-8192

Project No. : 0190002.00
Matrix : WATER
Date sampled : 04/05/91
Date ext. TOG: 04/09/91
Date anl. TOG: 04/09/91

Anametrix I.D. : 9104066
Analyst :
Supervisor :
Date released : 04/12/91

Workorder #	Sample I.D.	Reporting Limit (mg/L)	Amount Found (mg/L)
9104066-01	MW-1	5	ND
9104066-02	MW-2	5	ND
GWBL040991	METHOD BLANK	5	ND

ND - Not detected at or above the practical quantitation limit for the method.
TOG - Total Oil & Grease is determined by Standard Method 5520BF.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

TOTAL OIL AND GREASE METHOD SPIKE
STANDARD METHOD 5520BF
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD SPIKE
Matrix : WATER
Date sampled : N/A
Date extracted: 04/09/91
Date analyzed : 04/09/91

Anametrix I.D. : SPK040991
Analyst :
Supervisor :
Date Released : 04/12/91

COMPOUND	SPIKE AMT. (mg/L)	MS (mg/L)	%REC MS	MSD (mg/L)	%REC MSD	RPD	%REC LIMIT
Motor Oil	50	40	80%	40	80%	0%	47-99

* Quality control limits established by Anametrix, Inc.

SJV CONSULTANTS

Geological • Environmental • Mechanical • Asbestos

August 12, 1991
File No. 0191022.01

Mayer Properties, Inc.
753 Peralta Avenue
San Leandro, California 94577

Attention: Mr. Leon Mayer

Subject: Quarterly Groundwater Sampling
105th Avenue
Oakland, California

Dear Mr. Mayer:

SJV Consultants is pleased to present the attached report outlining the results of the most recent quarterly sampling effort at the subject site.

Analytical results indicate that MW-3 exhibits no contamination as the analytical data indicates ND. MW-1 indicates total petroleum hydrocarbons as 63 ppb based on discrete peaks which are however not indicative of gasoline. This will be examined further in the October sampling.

It is our recommendation that the next quarterly sampling be accomplished in October, 1991.

If there are any questions concerning this report please call at (510) 793 5366. A copy of this report should be forwarded to Mr. Barney Chan of the Alameda County Department of Health under your signature.

Thank you for using SJV Consultants in this matter.

Regards,

Kent A Madenwald
SJV Consultants

attach

REGISTERED GEOLOGIST
JOHN N. ALT

P.O. Box 7418 • Fremont, CA 94537
(415) 793-5366 • FAX (415) 796-3114

238 N. Fresno • Fresno, CA 93727
(209) 445-2370 • FAX (209) 486-3209

REPORT ON WATER SAMPLING

105th Avenue Site
Oakland, California

for

Mayer Properties, Inc.
753 Peralta Avenue
San Leandro, California 94577

by

SJV Consultants
P.O. Box 7418
Fremont, California 94537

August 12, 1991

File No 0191022 01

Backoround

Quarterly sampling of two (2) monitoring wells was initiated in April, 1991. Presently there are two monitoring wells, with the third well being abandoned during previous operations at the site. Two additional wells exist, which were for irrigation purposes. These two wells were investigated as to ability to afford elevation information. The well located in the eastern area of the property has been filled with dirt and debris and therefore is not used for groundwater elevation purposes (See Plate 1).

Another well in the north central portion of the property has groundwater in the well, with a 2" casing placed inside the original 6" steel casing. The elevation for this groundwater measurement was taken at the top of the 2" casing (See Plate 1).

Water Sampling

Monitoring Wells 1 and 2 were purged by means of a hand pump and the water placed into two drums. Monitoring well No. 1 was purged approximately 22 gallons prior to sampling. The samples were taken in a clean 1" teflon bailer. Samples were placed in appropriate containers and stored in coolers with blue ice. Monitoring well No. 2 was purged approximately 26 gallons and the groundwater sample was taken with a clean 1" teflon bailer. Samples were collected in proper containers and stored in a cooler with blue ice.

Analytical Results

Monitoring Wells 1 and 2 were analyzed per the following methods: TPHg, TPHd, BTX&E, Total Oil and Grease. The following table summarizes the analytical data.

TABLE I

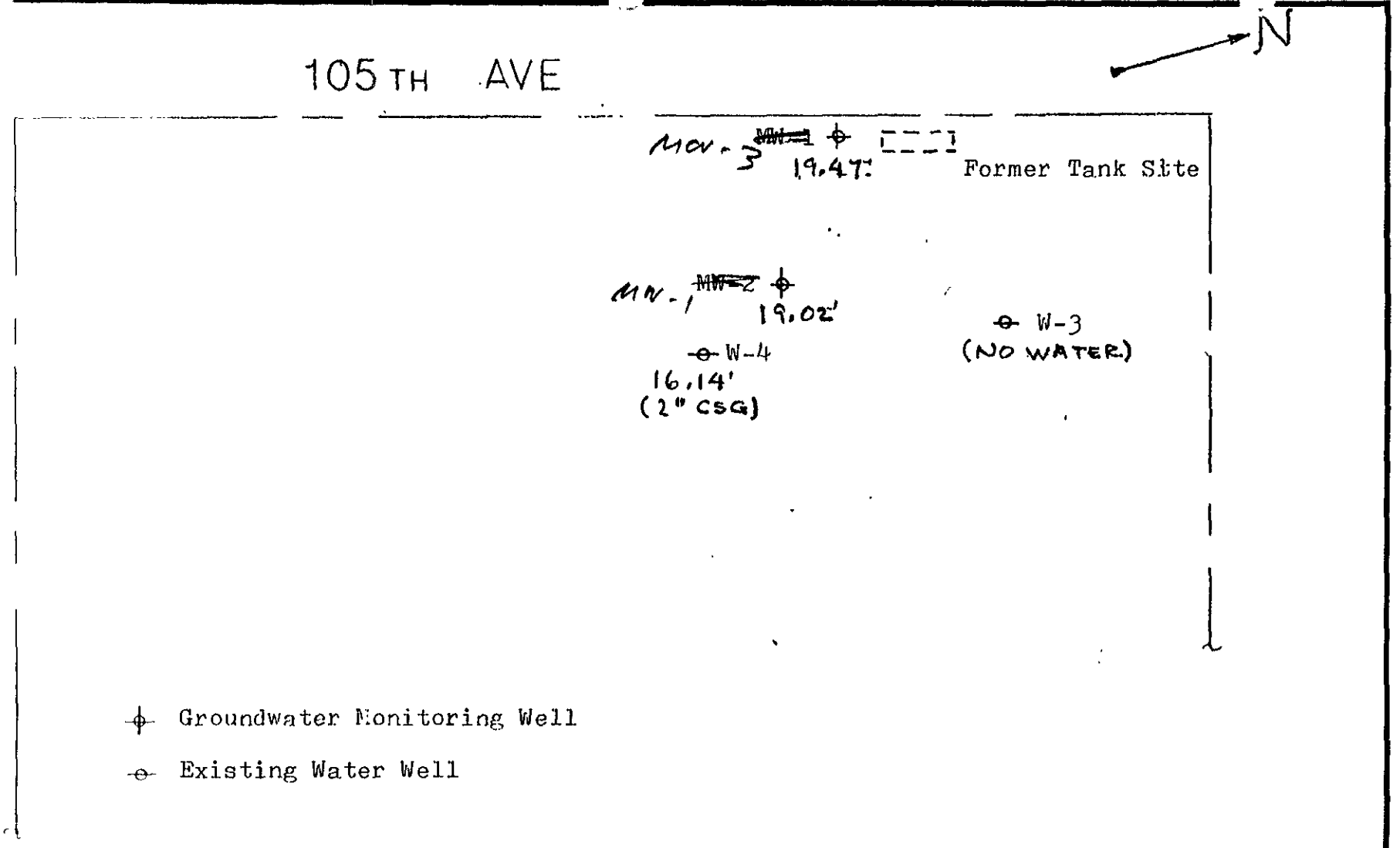
Sample No.	TPHg	TPHd	TOG
GW-MW-1	63*	ND	ND
GW-MW-2	ND	ND	ND

All results in ppb (parts per billion)

* The concentration reported as gasoline is primarily due to the presence of discrete hydrocarbon peaks not indicative of gasoline (See Anametrix, Inc , report GC/TPH - Page 2)

Recommendations

No further testing is anticipated until October, 1991. The explanation for the 63 ppb as gasoline is unexplainable at this time and will be checked in the October sampling where a duplicate sample will be taken and run as a field blank.



LOCATION, GROUNDWATER WELLS 105th Avenue
Oakland, California

SCALE: None	APPROVED BY:	DRAWN BY
DATE: 8-12-91		REVISED

MAYER DEVELOPMENT, INC.
753 Peralta Ave., San Leandro, CA

SJV Consultants
P.O. Box 7418, Fremont, CA

DRAWING NUMBER
P-1

9107348 (10/8) (10/13) 12/15

CHAIN OF CUSTODY RECORD

SJV CONSULTANTS

PERSONNEL

Sampler (Signature) [signature]

Phone 415 793 6366

Field Crew Supervisor

Field Company

Project Geologist/Engineer K.A.L.

SITE INFORMATION

Job Name [illegible] PROPERTIES

Job Number 5191022.00

Sample Location 105 TH AVE

[illegible], CA.

P.O. Number

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature] 7-30-91	[signature]	07-30-91	1100
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
(1) GW-MW-1	H_2O	2		7-29	TOG	
GW-MW-1	"	1		7-29	TPH(G)	
GW-MW-1	"	2		7-29	TPH (D)	
(2) GW-MW 2	H_2O	2		7-29	TOG	
GW-MW 2	"	1		7-29	TPH(G)	
GW-MW-2	"	2		7-29	TPH(D)	

SAMPLE (1)

3 VOA FOR BTEX/TPHg

2 LITER FOR TPHd

2 LITER FOR TOG

SAMPLE #2

3 VOA FOR BTEX/TPHg

2 LITER FOR TPHd

2 LITER FOR TOG

SAMPLES COLD

PROPER CONTAINER

NO HEADSPACE

LITERS FOR TOG

WAS PRESERVED

Remarks: FC - TPHG

[illegible] SAMPLED LITERS

ANAMETRIX INC
Environmental & Analytical Chemistry
1961 Concourse Drive Suite E. San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

REPORT

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 7418
FREMONT, CA 94537

Workorder # : 9107348
Date Received : 07/30/91
Project ID : 0191022.00
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9107348- 1	GW-MW-1
9107348- 2	GW-MW-2

This report consists of 9 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.
Laboratory Manager

08-08-91
Date

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 7418
FREMONT, CA 94537

Workorder # : 9107348
Date Received : 07/30/91
Project ID : 0191022.00
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9107348- 1	GW-MW-1	WATER	07/29/91	TPHd
9107348- 2	GW-MW-2	WATER	07/29/91	TPHd
9107348- 1	GW-MW-1	WATER	07/29/91	TPHg
9107348- 2	GW-MW-2	WATER	07/29/91	TPHg

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 7418
FREMONT, CA 94537

Workorder # : 9107348
Date Received : 07/30/91
Project ID : 0191022.00
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as gasoline for sample GW-MW-2 is primarily due to the presence of discrete hydrocarbon peaks not indicative of gasoline.

Department Supervisor Date

Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9107348
Matrix : WATER
Date Sampled : 07/29/91

Project Number : 0191022.00
Date Released : 08/08/91

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# GW-MW-1 -01	Sample I.D.# GW-MW-2 -02	Sample I.D.# 04B0801B BLANK
TPH as Gasoline	50	ND	63	ND
% Surrogate Recovery		102%	113%	100%
Instrument I.D.		HP4	HP4	HP4
Date Analyzed		08/01/91	08/01/91	08/01/91
RLMF		1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst — Date: 8/3/91

Supervisor — Date: 8/11

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9107348
Matrix : WATER
Date Sampled : 07/29/91
Date Extracted: 08/05/91

Project Number : 0191022.00
Date Released : 08/08/91
Instrument I.D.: HP23

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9107348-01	GW-MW-1	08/06/91	50	ND
9107348-02	GW-MW-2	08/06/91	50	ND
DWBL080591	METHOD BLANK	08/06/91	50	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 50ug/L.
ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst 8/9/91 Date

Supervisor 8/8/91 Date

TOTAL EXTRACTABLE HYDROCARBON METHOD SPIKE REPORT
EPA METHOD 3510 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD SPIKE
Matrix : REAGENT WATER
Date Sampled : N/A
Date Extracted: 08/05/91
Date Analyzed : 08/06/91

Anametrix I.D. : SPK080591
Analyst : IS
Supervisor : SG
Date Released : 08/08/91

COMPOUND	SPIKE AMT. (ug/L)	MS (ug/L)	%REC MS	MSD (ug/L)	%REC MSD	RPD	%REC LIMITS
Diesel	1250	1200	96%	1300	104%	8%	35-109

* Limits established by Anametrix, Inc.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 7418
FREMONT, CA 94537

Workorder # : 9107348
Date Received : 07/30/91
Project ID : 0191022.00
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9107348- 1	GW-MW-1	WATER	07/29/91	5520BF
9107348- 2	GW-MW-2	WATER	07/29/91	5520BF

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KENT MADENWALD
SJV CONSULTANTS
P.O. BOX 7418
FREMONT, CA 94537

Workorder # : 9107348
Date Received : 07/30/91
Project ID : 0191022.00
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

August, 6th 1991

Department Supervisor Date

08-06-91

Chemist Date

ANALYSIS DATA SHEET - TOTAL OIL AND GREASE
ANAMETRIX, INC. (408) 432-8192

Project # : 0191022.00
Matrix : WATER
Date sampled : 07/29/91
Date ext. TOG: 08/02/91
Date anl. TOG: 08/02/91

Anametrix I.D. : 9107348
Analyst : AFP
Supervisor : EAP
Date released : 08/05/91

Workorder #	Sample I.D.	Reporting Limit (mg/L)	Amount Found (mg/L)
9107348-01	GW-MW-1	5	ND
9107348-02	GW-MW-2	5	ND
GWBL080291	METHOD BLANK	5	ND

ND - Not detected at or above the practical quantitation limit for the method.
TOG - Total Oil & Grease is determined by Standard Method 5520BF.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

TOTAL OIL AND GREASE METHOD SPIKE
STANDARD METHOD 5520BF
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD SPIKE
Matrix : WATER
Date Sampled : N/A
Date extracted: 08/02/91
Date analyzed : 08/02/91

Anametrix I.D. : SPK080291
Analyst : APR.
Supervisor : EP
Date Released : 08/05/91

COMPOUND	SPIKE AMT. (mg/L)	MS (mg/L)	%REC MS	MSD (mg/L)	%REC MSD	%RPD	%REC LIMITS
Motor Oil	50	48	96%	48	96%	0%	47-99%

* Quality control limits established by Anametrix, Inc.

October 22, 1991
File No. 0191022.01

Mayer Properties, Inc.
753 Peralta Avenue
San Leandro, California 94577

Attention: Mr. Leon Mayer

Subject: Quarterly Groundwater Sampling
342-344 105th Avenue
Oakland, California

Dear Mr. Mayer:

SJV Consultants is pleased to present the attached report outlining the results of the most recent quarterly sampling effort at the subject site

Analytical results indicate that MW-3 exhibits 1.1 ppm of Oil and Grease, which is below action levels, and all other constituents are Non Detected. MW-[illegible] indicated Non-Detected on all constituents.

It is our recommendation that the last quarterly sampling be accomplished in January, 1992.

If there are any questions concerning this report please call at (510) 793-5366. A copy of this report should be forwarded to Mr. Barney Chan of the Alameda County Department of Health under your signature.

Thank you for using SJV Consultants in this matter.

Regards,

Kent A. Madsen

REPORT ON WATER SAMPLING

105th Avenue Site
Oakland, California

for

Mayer Properties, Inc.
752 Peralta Avenue
San Leandro, California, 94577

by

SJV Consultants
P.O. Box 7418
Fremont, California 94537

August 12, 1991

Background

Quarterly sampling of two (2) monitoring wells was initiated in April, 1991. The third monitoring well was abandoned during previous operations at the site. This effort is the third quarterly sampling of the two wells.

Water Sampling

Monitoring wells 1 and 2 were purged by means of a hand pump and the water placed into two drums. Twenty-five gallons of water was purged from each well. The samples were taken in a clean 1" teflon bailer. Samples were place in appropriate containers and stored in coolers with ice.

Analytical Results

Monitoring wells 1 and 2 were analyzed per the following methods: TPH(g), TPH(d), BTX&E, and Total Oil and Grease. The following table summarizes the analytical data.

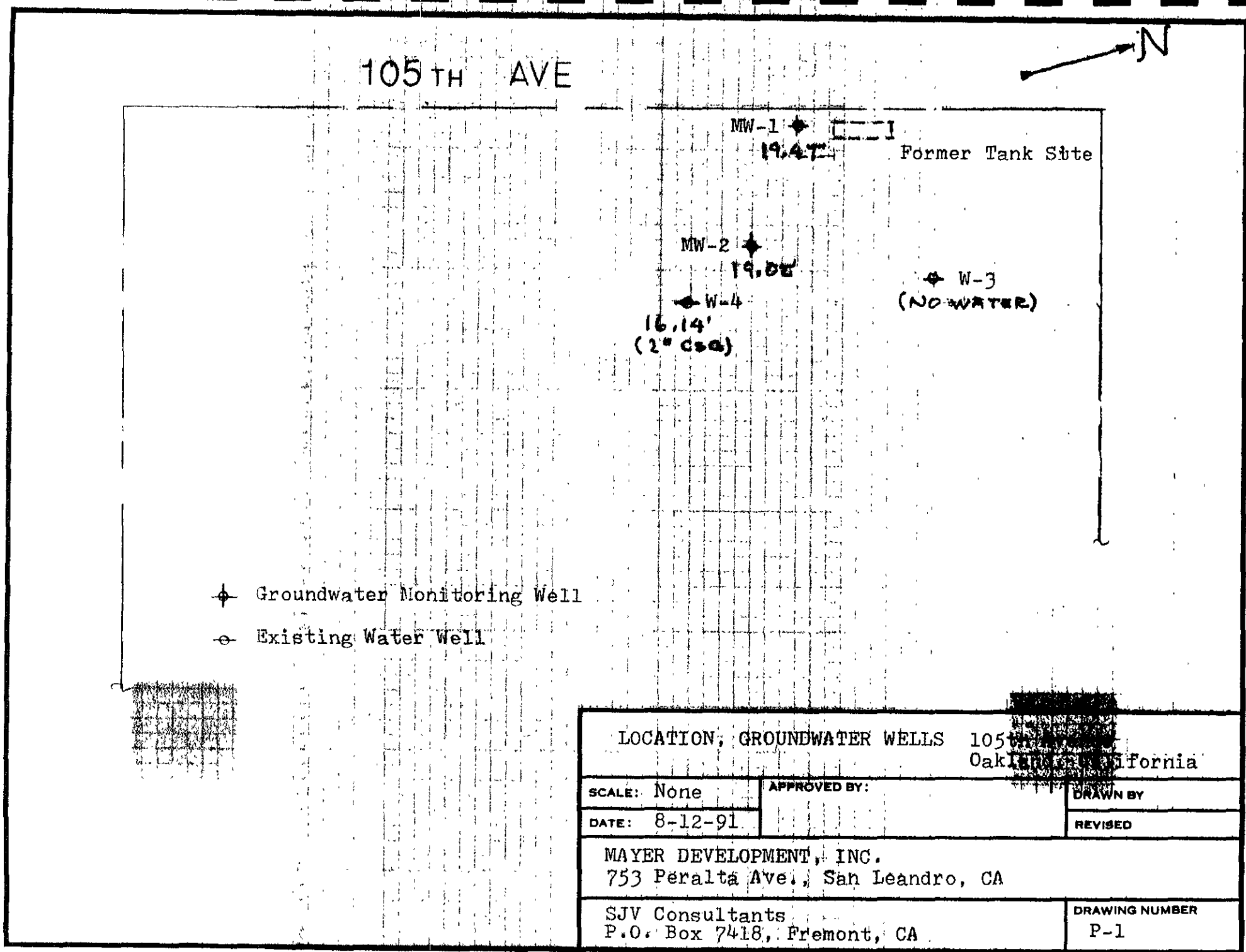
TABLE I

Sample No.	TPH(g)	TPH(d)	B	T	X	E	TOG
MW-1	ND	ND	ND	ND	ND	ND	1.1
MW-2	ND	ND	ND	ND	ND	ND	ND

Total Oil and Grease in ppm (parts per million).

Recommendations

No further testing is required until January, 1992.



LOCATION: GROUNDWATER WELLS 105th [redacted] Oakland, California

SCALE: None	APPROVED BY:	DRAWN BY
DATE: 8-12-91		REVISED

MAYER DEVELOPMENT, INC.
753 Peralta Ave., San Leandro, CA

SJV Consultants
P.O. Box 7418, Fremont, CA

DRAWING NUMBER
P-1

CHROMALAB FILE # 1091137
ORDER # 3797

CHAIN OF CUSTODY RECORD

SJV CONSULTANTS

PERSONNEL

Sampler (Signature) _____
Phone 510-793-5366
Field Crew Supervisor _____
Field Company SJV CONSULTANTS
Project Geologist/Engineer K.A. MADENWALD

SITE INFORMATION

Job Name MAYOR PROPERTIES
Job Number 0191022.00
Sample Location GW-1, GW-2
P.O. Number _____

Relinquished by (Signature)	Received by (Signature)	Date	Time
_____ 10/15/91	_____	10/15/91	10:23
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
MW-1	WTR	3-40ml.		10/14/91	TPH(g)+BTEX	cold, OK
MW-1	WTR	2-1l.		"	TPH(d)	
MW-1	WTR	2-1l.		"	SVOC	
MW-2	WTR	3-40ml		10/14/91	TPH(g)+BTEX	
MW-2	WTR	2-1l.		"	TPH(d)	
MW-2	WTR	2-1l		"	SVOC	

Remarks: _____

CHROMALAB, INC.

Analytical Laboratory (E884)

5 DAYS TURNAROUND

October 22, 1991 ChromaLab File No.: 1091137

SJV CONSULTANTS

Attn: K. A. Madenwald

RE: Two water samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses

Project Name: MAYER PROPERTIES
Project Number: 0191022.00
Date Sampled: Oct. 14, 1991 Date Submitted: Oct. 15, 1991
Date Extracted: Oct. 18-21,1991 Date Analyzed: Oct. 18-21,1991

RESULTS:

Sample I.D.	Gasoline (µg/l)	Diesel (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl Benzene (µg/l)	Total Xylenes (µg/l)	Oil & Grease (mg/kg)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.1
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	98.0%	88.2%	89.1%	89.5%	92.0%	88.6%	----
DET. LIMIT	50	50	0.5	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/ 8015	3510/ 8015	602	602	602	602	5520 B&F

ChromaLab, Inc.

David Duong
Chief Chemist

Eric Tam (by DD)
Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157