Thompson & Thompson Fence Co., Inc.

97 JUN 30 PM 4:11

June 23, 1997

Ms. Amy Leech, Hazardous Materials Specialist
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Quarterly Self-Monitoring Report
Groundwater Monitoring Well
Thompson and Thompson Fence Company
2584 Grant Avenue
San Lorenzo, CA 94580

Dear Ms. Leech,

As of the month of March 1996, Thompson Fence Co. has initiated quarterly monitoring of three (3) groundwater wells located at the above address.

Attached is the monitoring report for the months of January to March 1997 submitted on behalf of Thompson and Thompson Fence Co., by PolyMatrix Associates of Castro Valley, California.

I certify under penalty of the law this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any question regarding this information, please do not hesitate to call.

Sincerely,

Gary A. Thompson, President

P.O. Box 206, 2584 Grant Ave. San Lorenzo, California 94580 (510) 276-8350 Fax (510) 278-4024

POLYMATRIX
ASSOCIATES

3056 CASTRO VALLEY BLVD., SUITE 183
CASTRO VALLEY, CALIFORNIA 94546
510 / 582-1641

May 02, 1997

Mr. Gary Thompson
Thompson and Thompson Fence Co.
2584 Grant Avenue
San Lorenzo, California 94580

Subject: Quarterly Self-Monitoring Report
Groundwater Monitoring Wells
Thompson and Thompson Fence Co.
2584 Grant Avenue
San Lorenzo, California 94580

Dear Mr. Thompson:

At the request of Thompson and Thompson Fence Co., PolyMatrix Associates has initiated quarterly monitoring of three (3) groundwater wells and monthly groundwater gradient maps located at the above address. This report contains information regarding standard operational procedures performed to produce physical and chemical data at the Thompson and Thompson Fence Co. facility, San Lorenzo, CA.

The information within this report is data only, therefore no conclusions or interpretations are implied.

Groundwater Elevation Readings: Monthly groundwater elavation readings were performed on the three monitoring wells located at Thompson & Thompson Fence Company. Three groundwater gradient maps, representing January, February and March 1997, were generated with information of current surfacewater to casing readings and surveyed casing elevations. A recent survey update was performed by Ron Archer Civil Engineer Inc. The elevations were referenced to benchmark "Grant-OL". The gradient maps for the months of Jan. through March, 1997 are attached.

Sample collection: The quarterly sample collection took place on March 28, 1997. A total of three wells were purged and sampled. The analyses for the groundwater samples consisted of TPH-G (gasoline) and BTX&E.

Groundwater samples were obtained by purging the wells a minimum of three volumes. The 2" diameter casing wells were purged by use of a 10' pvc bailer. Hydrogen ion (pH), conductivity, and temperature were monitored throughout the purging process. Field data readings recorded during the purging process are on file at our office.

Groundwater samples were collected with a bottom loading teflon bailer and stored into proper containers, preserved if applicable, labeled, recorded on chain-of-custody forms, and placed on crushed ice (4'C) for transportation to the laboratory. See chain-of-custody form for specific preservation methods.

Comments: A total of three bore volumes were removed from each monitoring well prior to sample collection. Typically, four bore volumes would be removed from each monitoring well prior to sample collection. Only three bore volumes were removed due to very low recharge rates of the monitoring wells.

Equipment Decontamination: All equipment used during the elevation, purging, and sample collection were decontaminated in the field. The decontamination process consisted of: a tap water rinse, a TSP rinse, and ending with a de-ionized water rinse.

Containment of Bailings: Groundwater retrieved during the purging of the monitoring wells was stored into a fifty-five gallon barrel. The barrel of groundwater bailings are presently being stored at Thompson and Thompson Fence Co. facility.

Analysis: The analyses performed on the groundwater samples collected was performed by AEN of Pleasant Hill, CA. Analytical results are located in the attached report dated 04/08/97, log number 9703370.

If you should have any questions regarding this report, please feel free to call upon me at your convenience.

Sincerely,
PolyMatrix Associates

Fred Davis
Project Manager

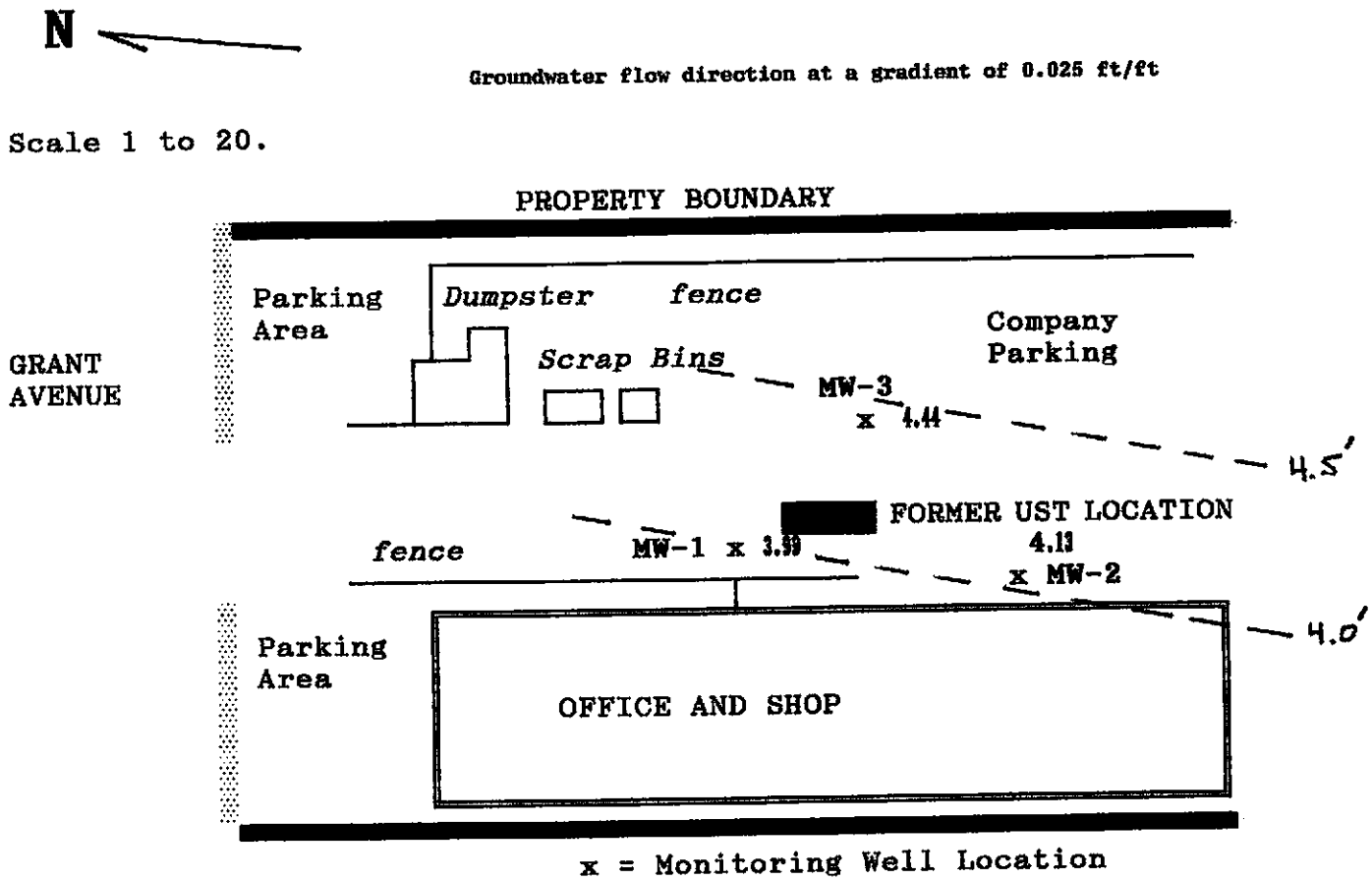
Christopher M. Palmer, C.E.G.

REGISTERED GEOLOGIST
CHRISTOPHER M. PALMER
№ 1262
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Attachments: Laboratory Results

FIGURE 1

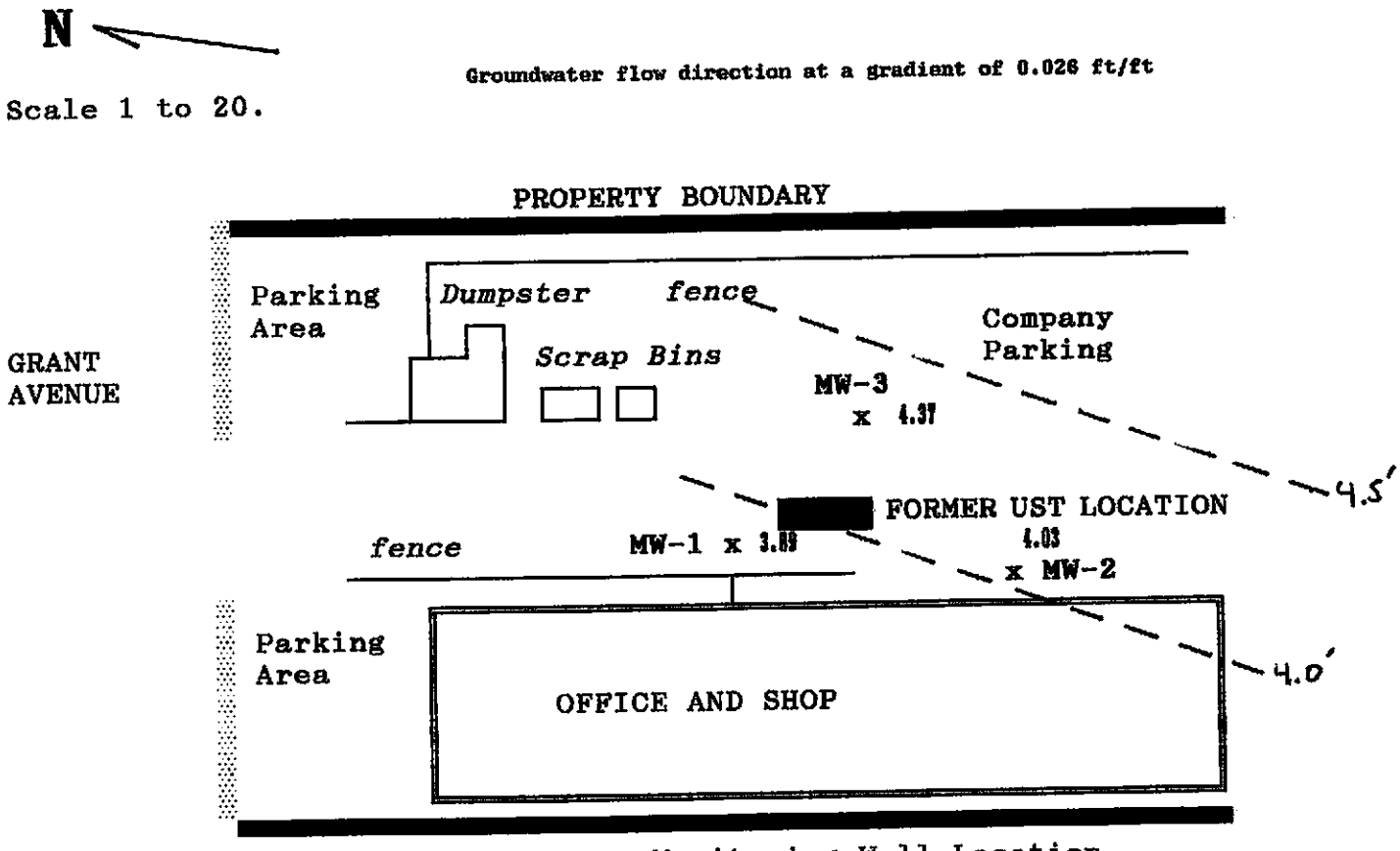
MONITORING WELL LOCATION AND GROUNDWATER ELEVATION CONTOUR
2684 GRANT AVENUE, SAN LORENZO, CALIFORNIA
MEASURED: January 13, 1997



Well	Reference/Ground Elevation (ft)	Groundwater level (ft)
MW-1	8.52	3.47
MW-2	8.60	3.39
MW-3	8.44	3.42

FIGURE 2

MONITORING WELL LOCATION AND GROUNDWATER ELEVATION CONTOUR
2584 GRANT AVENUE, SAN LORENZO, CALIFORNIA
MEASURED: February 28, 1997



x = Monitoring Well Location

Well	Reference/Ground Elevation (ft)	Groundwater level (ft)
MW-1	8.52	3.94
MW-2	8.60	4.06
MW-3	8.44	4.37

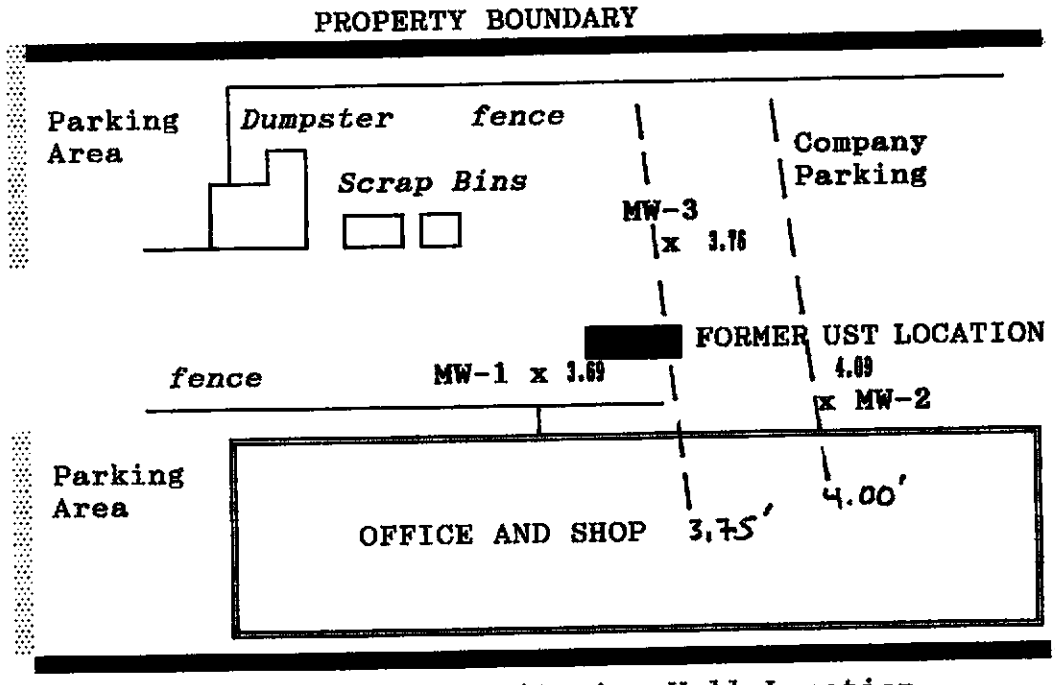
FIGURE 3

MONITORING WELL LOCATION AND GROUNDWATER ELEVATION CONTOUR
2584 GRANT AVENUE, SAN LORENZO, CALIFORNIA
MEASURED: March 28, 1997

N

Groundwater flow direction at a gradient of 0.013 ft/ft

Scale 1 to 20.



x = Monitoring Well Location

Well	Reference/Ground Elevation (ft)	Groundwater level (ft)
MW-1	8.52	3.69
MW-2	8.60	4.09
MW-3	8.44	3.76

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

POLYMATRIX ASSOCIATES
3056 CASTRO VALLEY BLVD
SUITE 183
CASTRO VALLEY, CA 94546

ATTN: FRED DAVIS
CLIENT PROJ. ID: THOMPSON FENCE

REPORT DATE: 04/08/97

DATE(S) SAMPLED: 03/28/97

DATE RECEIVED: 03/28/97

AEN WORK ORDER: 9703370

PROJECT SUMMARY:

On March 28, 1997, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

POLYMATRIX ASSOCIATES

SAMPLE ID: MW-1
AEN LAB NO: 9703370-01
AEN WORK ORDER: 9703370
CLIENT PROJ. ID: THOMPSON FENCE

DATE SAMPLED: 03/28/97
DATE RECEIVED: 03/28/97
REPORT DATE: 04/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**			ppb	
Benzene	71-43-2	1,400 *	5	ug/L	04/03/97
Toluene	108-88-3	160 *	5	ug/L	04/03/97
Ethylbenzene	100-41-4	630 *	5	ug/L	04/03/97
Xylenes, Total	1330-20-7	2,900 *	20	ug/L	04/03/97
Purgeable HCs as Gasoline	5030/GCFID	17 *	0.5	mg/L	04/03/97

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

MW-1 HAS THE WORST CONTAMINATION THAN MW-2 MW-3 IS ALMOST ND ACCORDING BCS MW-3 IS UPGRADIENT.

MW-1 - 5/15/96 FOR BZ 2200 VS 3/28/97 1400

MW-2 - " " 420 VS " 59

OTHER CONTAMINANTS CONC. DOWN & ALSO

POLYMATRIX ASSOCIATES

SAMPLE ID: MW-2
AEN LAB NO: 9703370-02
AEN WORK ORDER: 9703370
CLIENT PROJ. ID: THOMPSON FENCE

DATE SAMPLED: 03/28/97
DATE RECEIVED: 03/28/97
REPORT DATE: 04/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
				PPB	
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	59 *	0.5	ug/L	04/03/97
Toluene	108-88-3	19 *	0.5	ug/L	04/03/97
Ethylbenzene	100-41-4	65 *	0.5	ug/L	04/03/97
Xylenes, Total	1330-20-7	79 *	2	ug/L	04/03/97
Purgeable HCs as Gasoline	5030/GCFID	1.9 *	0.05	mg/L	04/03/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

POLYMATRIX ASSOCIATES

SAMPLE ID: MW-3
AEN LAB NO: 9703370-03
AEN WORK ORDER: 9703370
CLIENT PROJ. ID: THOMPSON FENCE

DATE SAMPLED: 03/28/97
DATE RECEIVED: 03/28/97
REPORT DATE: 04/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	0.5	ug/L	04/03/97
Toluene	108-88-3	0.6 *	0.5	ug/L	04/03/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	04/03/97
Xylenes, Total	1330-20-7	ND	2	ug/L	04/03/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	04/03/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9703370

CLIENT PROJECT ID: THOMPSON FENCE

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9703370
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
04/03/97	MW-1	01	92
04/03/97	MW-2	02	93
04/03/97	MW-3	03	99
QC Limits:			70-130

DATE ANALYZED: 04/02/97
SAMPLE SPIKED: 9703364-01
INSTRUMENT: F

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Benzene	18.5	88	6	85-109	17
Toluene	64.4	93	3	87-111	16
Hydrocarbons as Gasoline	500	78	3	66-117	19

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

POLYMATRIX ASSOCIATES

191 HARDER ROAD, SUITE 25
HAYWARD, CALIFORNIA 94544
510/582-1641

R-3,5-2

9703370

Proj. No.	Project Name					No. of Containers	TPH-6/BTXE					Remarks
	Thompson & Thompson Fence											
Samplers: (Signature) Fred Davis (Fred Davis)												
Sta. No.	Date	Time	Comp.	Grab	Station Location							
01ABC MW-1	3/28/97	12:05		X	2584 Grant Ave San Lorenzo, CA	3-VOAs	X					Pres. <2w/HCl.
02ABC MW-2	"	11:18		X	↓	"	X					Cool grandwaters
03ABC MW-3	"	10:30		X		"	X					samples to 4°C w/ crushed ice.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Fred Davis	3/28/97 1330			3/28 1630	
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)	Date / Time	Remarks:	

Chain of Custody Record