DURHAM
TRANSPORTATION

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91 JUL 15 PM 2:16

July 11, 1991

Miss Pamela Evans
Alameda County Health Care Services Agency
Hazardous Materials Division
80 Swan Way, Suite 200
Oakland, CA 94621

RE: Reports

Dear Miss Evans:

Enclosed is a copy of Toxic Technology's Progress Report #11 covering the 19984 Meekland Avenue, Hayward, California project.

Sincerely,

Chris M. Stone
Director of Contracts
and Administration

cc: G. Peterson
B. Ashton
J. Harbert

CTTS, Inc.
toxic technology services

June 30, 1991
Project No. 91-3

Mr. Jack Worthington
Durham Transportation
3717 North River Avenue
Rosemead, California 91770

Subject: Progress Report #11
Period Covering
June 1, 1991 - June 30, 1991
19984 Meekland Avenue, Hayward, CA

Dear Mr. Worthington:

Enclosed is the eleventh progress report for the Phase II investigation to evaluate the extent of soil and groundwater contamination at 19984 Meekland Avenue in the unincorporated area of Alameda County, near Hayward, California.

This report covers the following topics:

Introduction
June Activities
Monthly Monitoring of Groundwater Elevations

After your review of this document, it is recommended that a copy be sent to Ms. Pam Evans of the Alameda County Health Care Services Department, Hazardous Materials Division. An extra copy of this report has been provided to you for this purpose.

Thank you for this opportunity to provide Durham Transportation with these environmental services.

Sincerely,

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

John N. Alt, CEG #1136
Consulting Geologist
Toxic Technology Services
CTTS, Inc.

INTRODUCTION

The following is the eleventh progress report of activities in the evaluation of the lateral and vertical extent of soil and groundwater contamination at 19984 Meekland Avenue, in the unincorporated area of Alameda County, near Hayward, California. This report covers the period of June 1, 1991 - June 30, 1991. The previous progress reports are dated as follows:

1. July 2, 1990
2. August 2, 1990
3. September 21, 1990
4. November 12, 1990
5. December 28, 1990
6. February 11, 1991
7. February 25, 1991
8. April 4, 1991
9. May 20, 1991
10. June 3, 1991

The purpose of this on-going investigation is two fold; to assess the vertical and lateral extent of soil and groundwater contamination and to characterize the contamination with regards to constituents and concentration. This investigation will result in the preparation of a remediation plan that will recommend appropriate, available technology.

JUNE ACTIVITIES

On June 7, 1991, Lisa Polos and Jack Alt of Toxic Technology Services met with Jack Worthington of Durham Transportation to discuss concerns over the lateral extent of the groundwater contamination. Recommendations were made on the locations of off-site, down gradient wells. Mr. Worthington will make efforts to obtain permission from the appropriate property owner(s) for the installation of additional wells.

The progress of the Remediation Plan were also discussed. A draft has been prepared, but Durham Transportation wants to weigh all possibilities before choosing a remediation alternative.

A letter from Pam Evans of Alameda County, dated June 10, 1991 was received by Durham Transportation and Toxic Technology Services. This letter requests two additional monitoring wells, located off-site and down gradient.

A Remediation Plan and timetable for implementation was also requested to be submitted with the next quarterly report.

MONTHLY MONITORING OF GROUNDWATER ELEVATIONS

As stated in previous reports, the groundwater gradient at the site is essentially flat. The elevation of the groundwater has been measured in the monitoring wells on-site by surveying the elevation of the top of the casing and measuring the depth to groundwater using an electronic probe. The elevations are based on Alameda County benchmark BLO-MEEK located in the middle of the intersection of Blossom Way and Meekland Avenue. The depth to groundwater was measured in December of 1989, January of 1990, and then monthly since March of 1990.

The data are presented on Table 1. They indicate a very low westward to northwestward gradient. For the most part, the elevations of groundwater in the wells are within 0.1 feet and are about at the level of error in the measuring techniques. Therefore an exact gradient was not calculated.

The data also indicates that the groundwater table rose approximately 0.9 feet over the first four months of measurement, then flattened out. Characteristic with the dry season, the groundwater table receded until November, flattened out and rose significantly with the heavy rains of February and March. The last two months have shown a drop in groundwater elevation, characteristic with the on-set of summer.

TABLE 1
GROUNDWATER ELEVATION

Date	MW-1	MW-3	MW-4
Elevation top of casing	55.13	54.34	54.61
12/19/89	26.06	25.99	26.02
	(O)	(O)	(o)
1/29/90	26.35	26.34	26.43
3/23/90	26.91	26.83	26.90
	(O,S)	(O,-)	(o,-)
4/24/90	26.50	26.37	26.47
	(O,S)	(o,-)	(-,-)
Elevation top of casing	55.18	--	--
	(new collar for casing MW-1 only)		
5/31/90	26.50	26.44	26.52
	(O,S)	(-,-)	(-,-)
6/20/90	26.30	26.24	26.29
	(O,S)	(-,-)	(-,-)
7/12/90	25.78	25.83	25.92
	(O,S)	(O,-)	(-,-)
8/30/90	25.37	25.37	25.47
	(O,S)	(-,-)	(-,-)
9/28/90	25.03	25.10	25.20
	(O,S)	(-,-)	(-,-)
10/12/90	24.87	25.06	25.17
	(O,S)	(-,-)	(-,-)
11/30/90	25.09	25.00	25.08
	(O,S)	(-,-)	(-,-)
12/19/90	25.24	25.18	25.27
	(O,S)	(-,-)	(-,-)
1/24/91	25.18	25.16	25.22
	(O,S)	(-,-)	(-,-)
2/18/91	25.44	25.38	25.45
	(O,S)	(-,-)	(-,-)
3/27/91	27.48	27.45	29.56*
	Odor and Sheen not taken		
4/17/91	28.15	28.09	27.99
	(O,-)	(-,-)	(-,S)
5/23/91	27.18	27.12	27.16
	(-,-)	(-,-)	(-,-)
6/18/91	26.54	26.45	26.56
	(o,-)	(-,-)	(-,-)

Note: All measurements are in feet.
(O) = strong odor; (o) = slight odor; (S) = sheen;
(-) = non-detectable
* = suspect measurement

TABLE 1 (cont.)
GROUNDWATER ELEVATION

Date	MW-5	MW-6	MW-7	MW-8	MW-9
Elevation top of casing	54.95	54.92	55.57	55.07	54.12
9/28/90	25.27	25.21	Not Installed		
	(O,-)	(O,S)			
10/12/90	25.16	25.07	25.11		
	(O,-)	(O,-)	(O,S)		
11/30/90	25.12	25.01	25.54		
	(-,-)	(-,-)	(o,-)		
12/19/90	25.15	25.22	25.14		
	(O,-)	(o,-)	(O,-)		
1/24/91	25.54	25.16	25.21		
	(-,-)	(o,-)	(o,-)		
2/18/91	25.39	25.40	25.46	25.48	25.40
	(o,-)	(o,-)	(-,-)	(-,-)	(o,-)
3/27/91	26.62	27.46	27.50	27.40	27.40
	Odor and Sheen not taken				
4/17/91	28.04	28.00	28.02	28.06	27.99
	(-,-)	(-,-)	(-,-)	(-,-)	(-,-)
5/23/91	27.17	27.11	27.19	27.19	27.13
	(o,-)	(-,-)	(-,-)	(-,-)	(-,-)
6/18/91	26.77	26.46	26.53	26.57	26.58
	(o,-)	(-,-)	(-,-)	(-,-)	(-,-)

Note: All measurements are in feet.
(O) = strong odor; (o) = slight odor; (S) = sheen;
(-) = non-detectable