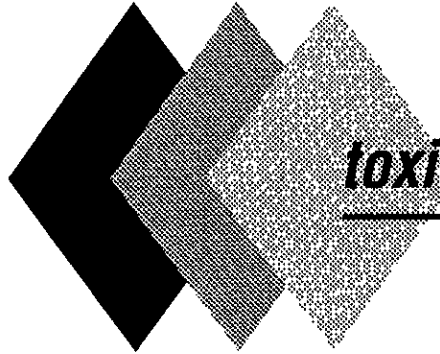


Rec'd May 13, 1991 PC



CTTS, Inc.
toxic technology services



CTTS, Inc.
toxic technology services

April 2, 1991
Project No. 91-6

Mr. Jack Worthington
Durham Transportation
P.O. Box 948
Rosemead, CA 91770

Subject: Report of Additional
Well Installations
19984 Meekland Avenue
Hayward, California

Dear Mr. Worthington:

Toxic Technology Services (CTTS, Inc) is pleased to present a report on the additional well installations requested by Alameda County for the property located at 19984 Meekland Avenue in the unincorporated area of Alameda County.

This report covers the following topics:

- Introduction
- Well Installations And Sampling
- Groundwater Data
- Conclusions and Recommendations

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.

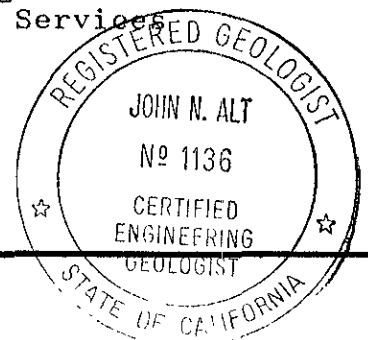
Sincerely,

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

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

LAP/JNA/lap

Enclosure



INTRODUCTION

On January 15, 1991, Lisa Polos and John Alt of Toxic Technology Services and Jack Worthington of Durham Transportation met with Pam Evans of the Alameda County Health Care Services Agency, Hazardous Materials Division. The topic of discussion was the phase II site characterization report dated November 27, 1990 for the subject site. The County and the Water Quality Control Board requires further investigation into the contaminant plume migration.

As a result of this meeting, and to further define the extent of the contaminant plume, two more wells, one up gradient and one down gradient will be installed.

The up gradient well, MW-8, is located at the southeast corner of the subject site (Plate 1). It was originally discussed that the down gradient well would be located off-site, preferably on Meekland Avenue at the site of Hank's Liquors (50 Blossom Way). Mr. Worthington discussed the installation of a well on this property with the property owner and was unable to obtain permission. The well, labeled MW-9, was instead installed on-site at the northwest quadrant of the property (Plate 1).

WELL INSTALLATIONS AND SAMPLING

On February 13, 1991, two groundwater monitoring wells, identified as MW-8 and MW-9, were installed at the subject site by HEW Drilling, Inc., using a CME 75 drill rig with hollow stem augers. Ms. Lisa Polos supervised the installation under the direction of Mr. John Alt, CEG. The locations of the wells are shown on Plate 1. Augers were steam cleaned prior to the drilling of the wells. A standard split barrel sampler with 2-5/8" OD and 2" ID was used for soil sampling. It had the capacity for obtaining an 18 inch sample using three six-inch long brass liners. Prior to obtaining each sample, the disassembled sampler and the brass liners were washed in a solution of TSP in water. Each piece was triple rinsed, with the final rinse being distilled water.

A boring log was prepared for each well. Copies of these logs are presented in Appendix A. Blow counts were recorded for each six inches of penetration of the sampler, and the time at which each sample was taken was noted on the field log. Soil samples were collected at five foot intervals during the drilling. One liner from each depth was retained for any required chemical analysis. The soil exposed in the ends of the tube was quickly noted, and the ends were then sealed with teflon tape and snug-filling plastic caps. The edges of the caps were sealed with

plastic tape. The cap was labeled with the sample number, depth, date, and project name. The soil samples were placed in a chilled ice chest as they were collected, and selected soil samples were marked and sent under chain-of-custody to NET Pacific laboratory, a State certified hazardous waste laboratory for analysis. The second and third samples were inspected and used for the sample description.

Four-inch (ID) Schedule 40 PVC pipe was used for the well casings. Each well was screened with slotted (0.020 inch openings) casings in the lower 15 feet of the well and capped at the bottom with a slip on cap. The 10-inch diameter borings were filled in the annular space between the casing and bore wall with clean #3 sand to a depth of approximately 2 feet above the top of the slotted casing. Above the sand-pack, at least two feet of bentonite pellets was used as a seal, and the remainder of the annulus was filled with cement grout. Monitoring Well Installation Reports with more detailed information on each of the well installations were recorded and are in the files.

The units encountered in the borings for monitoring wells MW-8 and MW-9 are shown on the boring logs (Appendix A). The soil samples collected from MW-8 had no odor above 20 feet. Samples at 20 and 25 feet had an organic, "earthy" odor, but not that of petroleum hydrocarbons. The units encountered were unstained and indicated no obvious signs of contamination.

The soil samples collected from MW-9 had a definite petroleum odor starting at 20 feet. The odor was stronger at 30 feet. The samples collected at 35 and 40 feet had no petroleum odor.

It is our opinion that 20 feet is within the zone of groundwater fluctuation and the contamination in MW-9 was deposited during a period of a higher groundwater level rather than some undiscovered source of contamination.

On February 18, 1991, Mr. John Alt and Ms. Lisa Polos purged the wells by evacuating a minimum of 15 gallons from each well by using a trilock pump. After the wells were purged, groundwater samples were collected using separate three-foot disposable bailers.

The first sample from each well was retrieved from the surface of the water, and the contents of the bailer were inspected to assess whether or not there was any floating product present. Groundwater from neither well had odor nor sheen. Sample vials and jars, provided by the laboratory, were filled from the bailer and put into a chilled ice chest.

Chemical data from the soil and groundwater samples is presented in a separate section of this report.

Prior to well installation, a monitoring well installation permit was obtained from Alameda County Zone 7. A copy of this permit is presented under Appendix B.

GROUNDWATER DATA

The elevation of the groundwater has been measured in the newly installed monitoring wells 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 on February 18, 1991. Table 1 presents the groundwater elevations for MW-8 and MW-9.

TABLE 1
GROUNDWATER ELEVATION

Date	MW-8	MW-9
Elevation top of casing	55.07	54.12
2/18/91	25.48 (-, -)	25.40 (o, -)

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

Chemical data from samples collected from MW-8 and MW-9 indicate that MW-8 is clean and that MW-9 is contaminated, but not at as high a level of contamination as has been found in MW-1 and MW-3.

MW-8 represents the up gradient quadrant of the site. Data indicates some minor soil contamination by Toluene, but not at levels that would indicate an off-site source of petroleum hydrocarbon contamination.

MW-9 is in the down gradient direction and soil contains low levels of contamination and water contains moderate levels of contamination. The soil contamination is at the depth of the capillary fringe and is thought to be caused by migration of groundwater contamination.

Tables 2 and 3 present summaries of results. Appendix C presents full analytical reports from NET Pacific.

TABLE 2
ANALYTICAL SUMMARY OF SOIL BORING SAMPLES

MW-8			
25'	Toluene	3.3	ug/Kg
35'	Toluene	28	ug/Kg
MW-9			
20'	1,2-Dichloroethane	7.9	ug/Kg
	Gasoline	2.2	mg/Kg
	Benzene	150	ug/Kg
	Ethylbenzene	29	ug/Kg
	Toluene	66	ug/Kg
	Xylenes	67	ug/Kg
30'	1,2-Dichloroethane	11	ug/Kg
	Gasoline	39	mg/Kg
	Benzene	180	ug/Kg
	Ethylbenzene	230	ug/Kg
	Toluene	340	ug/Kg
	Xylenes	1000	ug/Kg
	Diesel	6.0	mg/Kg
40'	Toluene	11	ug/Kg
	Xylenes	8.2	ug/Kg

TABLE 3
SUMMARY OF GROUNDWATER DATA

February 1991

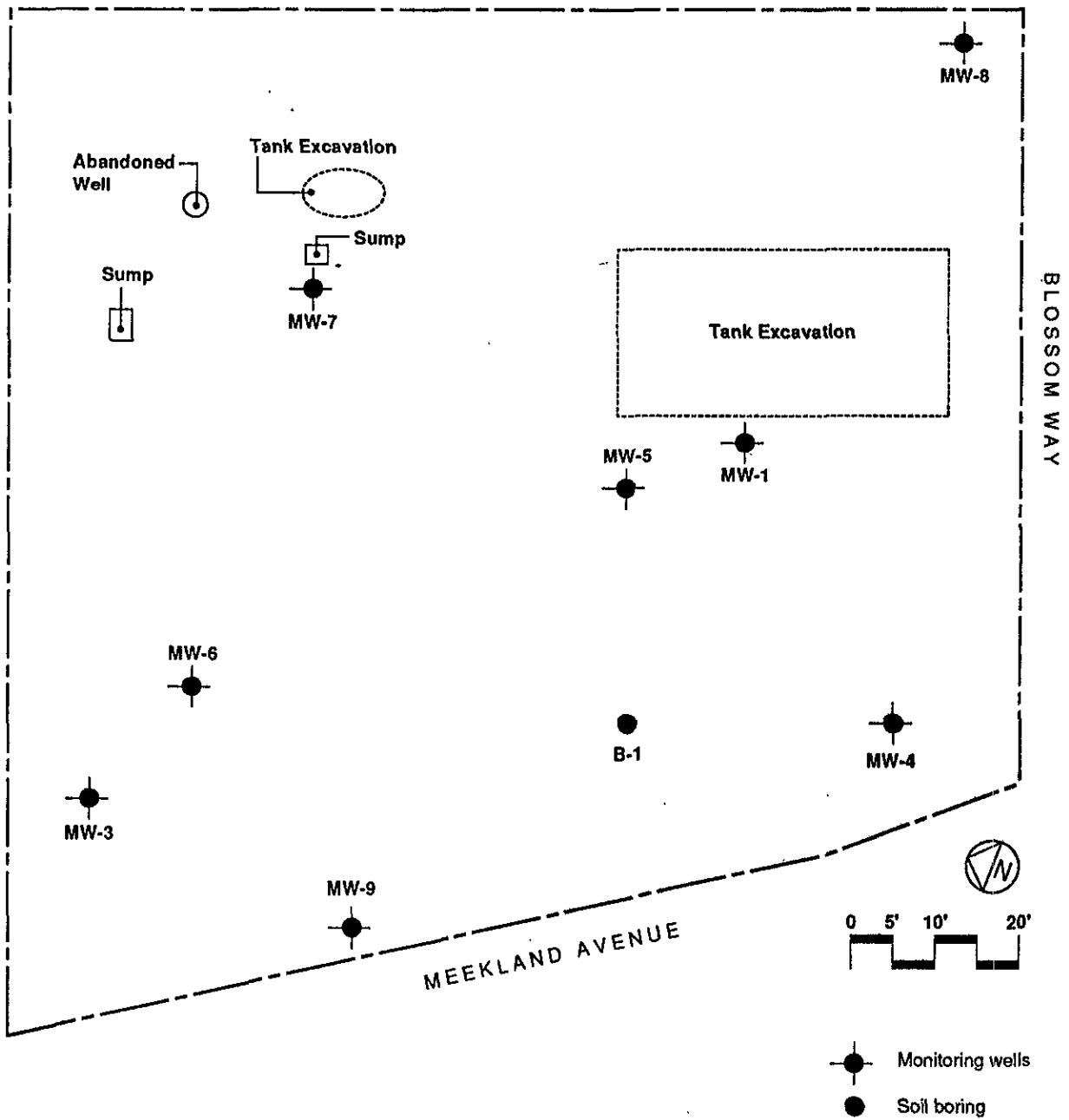
Constituent	MW-8	MW-9	
1,2-Dichloroethane	ND	13	ug/L
Gasoline	ND	6.0	mg/L
Benzene	ND	180	ug/L
Ethylbenzene	ND	19	ug/L
Toluene	ND	170	ug/L
Xylenes	ND	200	ug/L
Diesel	ND	1.6	mg/L

SUMMARY AND RECOMMENDATIONS

The data thus far indicates that the groundwater is the main source of contamination on-site. The up gradient well did not contain contamination and thus eliminates the need for additional up gradient data points. In the down gradient direction, the groundwater contamination has reached the boundary of the subject site. In order to define the contamination plume, an off-site well will be necessary.

It is the opinion of Toxic Technology Services that this off-site well should be located across the street near the apartment complex on Meekland Avenue.

PLATE 1



Durham Transportation - Site Plan

Plate No.: 1

Date: February 1991

Scale: 1" = 20'-0"

CTTS, Inc. - Toxic Technology Services

APPENDIX A

BORING LOG

Project Durham Transportation
 Location see location map
 Job # 91-6
 Geologist/Engineer J. Alt
 Drill Agency HEW Drilling

Hole/Well # MW-8
 Diameter of Drill Hole 10"
 Total Depth of Hole 40'
 Date Started Feb. 13, 1991
 Date Completed Feb. 13, 1991

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0	<p>4" solid PVC pipe</p> <p>grout</p> <p>bentonite seal</p>				
5		15	1		Brown clay, somewhat plastic, dry
10		15	2		Brownish gray sandy clay
15		18	3		Brownish clay, somewhat plastic; clay lead to medium coarse sandy clay-had pebbles in it and was quite dry. This leads to brown sand
20		5	4		Brown clayey sand grading to gray clay, mottled brown, very plastic

BORING LOG

PROJECT: Durham Transportation
 JOB NUMBER: 91-6






HOLE / WELL #: MW-8
 PAGE: 2 OF 2

DEPTH (FEET)	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / FOOT	USCS SYMBOL	DESCRIPTION
25	<p>sand pack</p> <p>4" slotted PVC casing</p>	5	11		<p>Top: mottled brown mud with some sandy clay</p> <p>Bottom: brown mud with gray mottling</p>
30		6	5		Brown silty clay with gray mottling, becoming moist
35		7	11		Tight brown clay, very plastic
40		8	7		Brown clay with dark brown mottling, moist, plastic

BORING LOG

Project Durham Transportation
 Location see location map
 Job # 91-6
 Geologist/Engineer J. Alt
 Drill Agency HEW Drilling

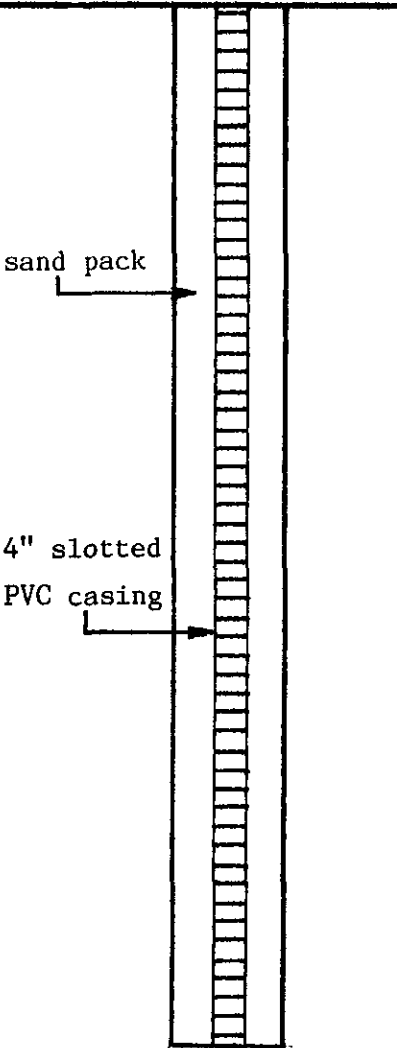
Hole/Well # MW-9
 Diameter of Drill Hole 10"
 Total Depth of Hole 40'
 Date Started Feb. 13, 1991
 Date Completed Feb. 13, 1991

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0					
5	4" solid PVC pipe 	15	1		Medium brown clayey silt, somewhat plastic, some small angular rock fragments, dry
10	grout 	8	2		Same as above
15	bentonite seal 	12	3		Brown clayey silt, locally sandy, moderated to low plasticity, grading to fine grain sand, loose, moist
20		6	4		Brown sandy clay, gray mottling

BORING LOG

PROJECT: Durham Transportation
 JOB NUMBER: 91-6

HOLE / WELL #: MW-9
 PAGE: 2 OF 2

DEPTH (FEET)	COMPLETION DETAIL		SAMPLE #	BLOW COUNTS / FOOT	USCS SYMBOL	DESCRIPTION
25	 <p>sand pack</p> <p>4" slotted PVC casing</p>		5	9	Greenish-gray clay	
30			6	10	Brown clay with some silt greenish gray mottling	
35			7	15	Medium brown clay, gray mottling, moist	
40			8	7	Medium brown clay, very plastic, moist	

APPENDIX B



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

FOR OFFICE USE

LOCATION OF PROJECT 1984 Meakland Ave Hayward, CA

PERMIT NUMBER 91073 LOCATION NUMBER

CLIENT Name Durham Transportation Address 2713 North River Ave Phone (818) 571-7020 City Rosemead, CA Zip 91770

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT Name Toxic Technology Services Address PO Box 515 Phone (415) 799-1140 City Redon, CA Zip 94572

TYPE OF PROJECT Well Construction Geotechnical Investigation Cathodic Protection General Water Supply Contamination Monitoring X Well Destruction

PROPOSED WATER SUPPLY WELL USE Domestic Industrial Other Municipal Irrigation

DRILLING METHOD: Mud Rotary Air Rotary Auger X Cable Other

DRILLER'S LICENSE NO. 384167

WELL PROJECTS Drill Hole Diameter 10 in. Maximum Casing Diameter 4 in. Depth 40 ft. Surface Seal Depth 24 ft. Number 2

GEO TECHNICAL PROJECTS Number of Borings Hole Diameter in. Maximum Depth ft.

ESTIMATED STARTING DATE 2/13/91 ESTIMATED COMPLETION DATE 2/13/91

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

APPLICANT'S SIGNATURE Linda Plos Date 2/7/91

- A. GENERAL 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report equivalent for well projects, or drilling log and location sketch for geotechnical projects. 3. Permit is void if project not begun within 30 days of approval date. B. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grout placed by tremie. 2. Minimum seal depth is 50 feet for municipal or industrial wells or 20 feet for domestic or irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practical or 20 feet. C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings. D. CATHODIC. Fill hole above anode zone with concrete placed by tremie. E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 7 Feb 91

APPENDIX C



NATIONAL
ENVIRONMENTAL
TESTING, INC.®

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Lisa A. Polos
Toxic Technology Services
P.O. Box 515
Rodeo, CA 94572

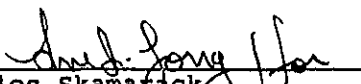
Date: 03-01-91
NET Client Acct No: 699
NET Pacific Log No: 6100
Received: 02-14-91 0800

Client Reference Information

Durham Transportation, Project: 91-6

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Jules Skamarack
Laboratory Manager

cc: Jack Worthington
Durham Transportation, Inc
2713 N. River Ave.
Rosemead, CA 91770

JS:rct
Enclosure(s)



NET Pacific, Inc

Client No: 699
Client Name: Durham Transportation, Inc
NET Log No: 6100

Date: 03-01-91

Page: 2

Ref: Durham Transportation, Project: 91-6

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-8 @ 25'	MW-8 @ 35'	Units
			02-13-91	02-13-91	
METHOD 8010					
DATE ANALYZED			02-20-91	02-20-91	
DILUTION FACTOR*			1	1	
Bromodichloromethane	2.0	ND	ND	ND	ug/Kg
Bromoform	2.0	ND	ND	ND	ug/Kg
Bromomethane	2.0	ND	ND	ND	ug/Kg
Carbon tetrachloride	2.0	ND	ND	ND	ug/Kg
Chlorobenzene	2.0	ND	ND	ND	ug/Kg
Chloroethane	2.0	ND	ND	ND	ug/Kg
2-Chloroethylvinyl ether	5.0	ND	ND	ND	ug/Kg
Chloroform	2.0	ND	ND	ND	ug/Kg
Chloromethane	2.0	ND	ND	ND	ug/Kg
Dibromochloromethane	2.0	ND	ND	ND	ug/Kg
1,2-Dichlorobenzene	2.0	ND	ND	ND	ug/Kg
1,3-Dichlorobenzene	2.0	ND	ND	ND	ug/Kg
1,4-Dichlorobenzene	2.0	ND	ND	ND	ug/Kg
Dichlorodifluoromethane	2.0	ND	ND	ND	ug/Kg
1,1-Dichloroethane	2.0	ND	ND	ND	ug/Kg
1,2-Dichloroethane	2.0	ND	ND	ND	ug/Kg
1,1-Dichloroethene	2.0	ND	ND	ND	ug/Kg
trans-1,2-Dichloroethene	2.0	ND	ND	ND	ug/Kg
1,2-Dichloropropane	2.0	ND	ND	ND	ug/Kg
cis-1,3-Dichloropropene	2.0	ND	ND	ND	ug/Kg
trans-1,3-Dichloropropene	2.0	ND	ND	ND	ug/Kg
Methylene Chloride	50	ND	ND	ND	ug/Kg
1,1,2,2-Tetrachloroethane	2.0	ND	ND	ND	ug/Kg
Tetrachloroethene	2.0	ND	ND	ND	ug/Kg
1,1,1-Trichloroethane	2.0	ND	ND	ND	ug/Kg
1,1,2-Trichloroethane	2.0	ND	ND	ND	ug/Kg
Trichloroethene	2.0	ND	ND	ND	ug/Kg
Trichlorofluoromethane	2.0	ND	ND	ND	ug/Kg
Vinyl chloride	2.0	ND	ND	ND	ug/Kg



NET Pacific, Inc.

Client No: 699
Client Name: Durham Transportation, Inc
NET Log No: 6100

Date: 03-01-91

Page: 3

Ref: Durham Transportation, Project: 91-6

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-8 @ 25'	MW-8 @ 35'	Units
			02-13-91	02-13-91	
			76493	76494	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (SOIL)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			02-24-91	02-24-91	
METHOD GC FID/5030			--	--	
as Gasoline		1	ND	ND	mg/Kg
METHOD 8020			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			02-24-91	02-24-91	
Benzene		2.5	ND	ND	ug/Kg
Ethylbenzene		2.5	ND	ND	ug/Kg
Toluene		2.5	3.3	28	ug/Kg
Xylenes, total		2.5	ND	ND	ug/Kg
PETROLEUM HYDROCARBONS			--	--	
EXTRACTABLE (SOIL)			--	--	
DILUTION FACTOR *			1	1	
DATE EXTRACTED			02-23-91	02-23-91	
DATE ANALYZED			02-25-91	02-25-91	
METHOD GC FID/3550			--	--	
as Diesel		1	ND	ND	mg/Kg
as Motor Oil		10	ND	ND	mg/Kg



NET Pacific, Inc.

Client No: 699
Client Name: Durham Transportation, Inc
NET Log No: 6100

Date: 03-01-91

Page: 4

Ref: Durham Transportation, Project: 91-6

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-9 @ 20'	MW-9 @ 30'	Units
			02-13-91	02-13-91	
METHOD 8010					
DATE ANALYZED			02-20-91	02-20-91	
DILUTION FACTOR*			1	1	
Bromodichloromethane	2.0	ND	ND	ND	ug/Kg
Bromoform	2.0	ND	ND	ND	ug/Kg
Bromomethane	2.0	ND	ND	ND	ug/Kg
Carbon tetrachloride	2.0	ND	ND	ND	ug/Kg
Chlorobenzene	2.0	ND	ND	ND	ug/Kg
Chloroethane	2.0	ND	ND	ND	ug/Kg
2-Chloroethylvinyl ether	5.0	ND	ND	ND	ug/Kg
Chloroform	2.0	ND	ND	ND	ug/Kg
Chloromethane	2.0	ND	ND	ND	ug/Kg
Dibromochloromethane	2.0	ND	ND	ND	ug/Kg
1,2-Dichlorobenzene	2.0	ND	ND	ND	ug/Kg
1,3-Dichlorobenzene	2.0	ND	ND	ND	ug/Kg
1,4-Dichlorobenzene	2.0	ND	ND	ND	ug/Kg
Dichlorodifluoromethane	2.0	ND	ND	ND	ug/Kg
1,1-Dichloroethane	2.0	ND	ND	ND	ug/Kg
1,2-Dichloroethane	2.0	7.9	11		ug/Kg
1,1-Dichloroethene	2.0	ND	ND	ND	ug/Kg
trans-1,2-Dichloroethene	2.0	ND	ND	ND	ug/Kg
1,2-Dichloropropane	2.0	ND	ND	ND	ug/Kg
cis-1,3-Dichloropropene	2.0	ND	ND	ND	ug/Kg
trans-1,3-Dichloropropene	2.0	ND	ND	ND	ug/Kg
Methylene Chloride	50	ND	ND	ND	ug/Kg
1,1,2,2-Tetrachloroethane	2.0	ND	ND	ND	ug/Kg
Tetrachloroethene	2.0	ND	ND	ND	ug/Kg
1,1,1-Trichloroethane	2.0	ND	ND	ND	ug/Kg
1,1,2-Trichloroethane	2.0	ND	ND	ND	ug/Kg
Trichloroethene	2.0	ND	ND	ND	ug/Kg
Trichlorofluoromethane	2.0	ND	ND	ND	ug/Kg
Vinyl chloride	2.0	ND	ND	ND	ug/Kg



NET Pacific, Inc.

Client No: 699
Client Name: Durham Transportation, Inc
NET Log No: 6100

Date: 03-01-91

Page: 5

Ref: Durham Transportation, Project: 91-6

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-9 @ 20'	MW-9 @ 30'	Units
			02-13-91	02-13-91	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (SOIL)			--	--	
DILUTION FACTOR *		1	1	10	
DATE ANALYZED			02-24-91	02-24-91	
METHOD GC FID/5030			--	--	
as Gasoline	1	2.2	39		mg/Kg
METHOD 8020			--	--	
DILUTION FACTOR *		1	1	10	
DATE ANALYZED			02-24-91	02-24-91	
Benzene	2.5	150	180		ug/Kg
Ethylbenzene	2.5	29	230		ug/Kg
Toluene	2.5	66	340		ug/Kg
Xylenes, total	2.5	67	1000		ug/Kg
PETROLEUM HYDROCARBONS			--	--	
EXTRACTABLE (SOIL)			--	--	
DILUTION FACTOR *		1	1	1	
DATE EXTRACTED			02-23-91	02-23-91	
DATE ANALYZED			02-25-91	02-25-91	
METHOD GC FID/3550			--	--	
as Diesel	1	ND	6.0		mg/Kg
as Motor Oil	10	ND	ND		mg/Kg



NET Pacific, Inc

Client No: 699
Client Name: Durham Transportation, Inc
NET Log No: 6100

Date: 03-01-91

Page: 6

Ref: Durham Transportation, Project: 91-6

Descriptor, Lab No. and Results

MW-9 @ 40'
02-13-91

Parameter	Method	Reporting Limit	76497	Units
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METHOD 8010

DATE ANALYZED			02-20-91	
DILUTION FACTOR*			1	
Bromodichloromethane	2.0	ND		ug/Kg
Bromoform	2.0	ND		ug/Kg
Bromomethane	2.0	ND		ug/Kg
Carbon tetrachloride	2.0	ND		ug/Kg
Chlorobenzene	2.0	ND		ug/Kg
Chloroethane	2.0	ND		ug/Kg
2-Chloroethylvinyl ether	5.0	ND		ug/Kg
Chloroform	2.0	ND		ug/Kg
Chloromethane	2.0	ND		ug/Kg
Dibromochloromethane	2.0	ND		ug/Kg
1,2-Dichlorobenzene	2.0	ND		ug/Kg
1,3-Dichlorobenzene	2.0	ND		ug/Kg
1,4-Dichlorobenzene	2.0	ND		ug/Kg
Dichlorodifluoromethane	2.0	ND		ug/Kg
1,1-Dichloroethane	2.0	ND		ug/Kg
1,2-Dichloroethane	2.0	ND		ug/Kg
1,1-Dichloroethene	2.0	ND		ug/Kg
trans-1,2-Dichloroethene	2.0	ND		ug/Kg
1,2-Dichloropropane	2.0	ND		ug/Kg
cis-1,3-Dichloropropene	2.0	ND		ug/Kg
trans-1,3-Dichloropropene	2.0	ND		ug/Kg
Methylene Chloride	50	ND		ug/Kg
1,1,2,2-Tetrachloroethane	2.0	ND		ug/Kg
Tetrachloroethene	2.0	ND		ug/Kg
1,1,1-Trichloroethane	2.0	ND		ug/Kg
1,1,2-Trichloroethane	2.0	ND		ug/Kg
Trichloroethene	2.0	ND		ug/Kg
Trichlorofluoromethane	2.0	ND		ug/Kg
Vinyl chloride	2.0	ND		ug/Kg



NET Pacific, Inc.

Client No: 699
Client Name: Durham Transportation, Inc
NET Log No: 6100

Date: 03-01-91

Page: 7

Ref: Durham Transportation, Project: 91-6

Descriptor, Lab No. and Results

MW-9 @ 40'
02-13-91

Parameter	Method	Reporting Limit	76497	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			1	
DATE ANALYZED			02-24-91	
METHOD GC FID/5030			--	
as Gasoline	1		ND	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			1	
DATE ANALYZED			02-24-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	11	ug/Kg
Xylenes, total		2.5	8.2	ug/Kg
PETROLEUM HYDROCARBONS				
EXTRACTABLE (SOIL)				
DILUTION FACTOR *			1	
DATE EXTRACTED			02-23-91	
DATE ANALYZED			02-25-91	
METHOD GC FID/3550			--	
as Diesel	1		ND	mg/Kg
as Motor Oil	10		ND	mg/Kg



KEY TO ABBREVIATIONS and METHOD REFERENCES

NET Pacific, Inc.

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.



Lisa Polos (415) 799-1140
 Toxic Technology Services
 P.O. Box 515
 Redwood, CA 94572

435 Tesconi Circle, Santa Rosa, CA 95401

(6100)

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	ANALYTES					REMARKS
91-6		Durham Transportation					TPH-G	TPH-D	BTEX	BOB	CHLOR. HYDRO.	
SAMPLERS: (Signature)												
Lisa D. Polos												
STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION							
MW-8	2/13/91				MW-8 @ 25'	1	X	X	X	X		no odor (organic matter)
MW-8					MW-8 @ 35'	1	X	X	X	X		no odor
MW-9					MW-9 @ 20'	1	X	X	X	X		Strong pet Hydro odor
MW-9					MW-9 @ 30'	1	X	X	X	X		Strong petroleum Hydro odor
MW-9					MW-9 @ 40'	1	X	X	X	X		no odor

(CUSTODY SEALED 2/13/91)
 @ 1400 MW1
 intake

Relinquished by: (Signature) Lisa D. Polos	Date / Time 2/13/91 2:35 PM	Received by: (Signature) Moby Tevoni	Date / Time 2/13/91	Relinquished by: (Signature) Moby Tevoni	Date / Time 2/13/91	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature) (VIA NLS)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks		



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Lisa A. Polos
Toxic Technology Services
P.O. Box 515
Rodeo, CA 94572

Date: 03-05-91
NET Client Acct No: 699
NET Pacific Log No: 6156
Received: 02-20-91 0800

Client Reference Information

Durham Transportation, Project: 91-6

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

A handwritten signature in black ink, appearing to read "Jules Skamarack", is written over a horizontal line.

Jules Skamarack
Laboratory Manager

cc: Jack Worthington
Durham Transportation, Inc
2713 N. River Ave.
Rosemead, CA 91770

JS:rct
Enclosure(s)



NET Pacific, Inc

@ Client No: 699
Client Name: Durham Transportation, Inc
NET Log No: 6156

Date: 03-05-91

Page: 2

Ref: Durham Transportation, Project: 91-6

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-8	MW-9	Units
			02-18-91 1515	02-18-91 1540	
			77459	77460	
METHOD 8010					
DATE ANALYZED			02-22-91	02-22-91	
DILUTION FACTOR*			1	1	
Bromodichloromethane		0.4	ND	ND	ug/L
Bromoform		0.4	ND	ND	ug/L
Bromomethane		0.4	ND	ND	ug/L
Carbon tetrachloride		0.4	ND	ND	ug/L
Chlorobenzene		0.4	ND	ND	ug/L
Chloroethane		0.4	ND	ND	ug/L
2-Chloroethylvinyl ether		1.0	ND	ND	ug/L
Chloroform		0.4	ND	ND	ug/L
Chloromethane		0.4	ND	ND	ug/L
Dibromochloromethane		0.4	ND	ND	ug/L
1,2-Dichlorobenzene		0.4	ND	ND	ug/L
1,3-Dichlorobenzene		0.4	ND	ND	ug/L
1,4-Dichlorobenzene		0.4	ND	ND	ug/L
Dichlorodifluoromethane		0.4	ND	ND	ug/L
1,1-Dichloroethane		0.4	ND	ND	ug/L
1,2-Dichloroethane		0.4	ND	13	ug/L
1,1-Dichloroethene		0.4	ND	ND	ug/L
trans-1,2-Dichloroethene		0.4	ND	ND	ug/L
1,2-Dichloropropane		0.4	ND	ND	ug/L
cis-1,3-Dichloropropene		0.4	ND	ND	ug/L
trans-1,3-Dichloropropene		0.4	ND	ND	ug/L
Methylene Chloride		10	ND	ND	ug/L
1,1,2,2-Tetrachloroethane		0.4	ND	ND	ug/L
Tetrachloroethene		0.4	ND	ND	ug/L
1,1,1-Trichloroethane		0.4	ND	ND	ug/L
1,1,2-Trichloroethane		0.4	ND	ND	ug/L
Trichloroethene		0.4	ND	ND	ug/L
Trichlorofluoromethane		0.4	ND	ND	ug/L
Vinyl chloride		2.0	ND	ND	ug/L



Client No: 699
 Client Name: Durham Transportation, Inc
 NET Log No: 6156

Date: 03-05-91
 Page: 3

NET Pacific, Inc.

Ref: Durham Transportation, Project: 91-6

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-8	MW-9	Units
			02-18-91 1515	02-18-91 1540	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	50	
DATE ANALYZED			02-28-91	03-01-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	ND	6.0	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			1	50	
DATE ANALYZED			02-28-91	03-01-91	
Benzene		0.5	ND	180	ug/L
Ethylbenzene		0.5	ND	19	ug/L
Toluene		0.5	ND	170	ug/L
Xylenes, total		0.5	ND	200	ug/L
PETROLEUM HYDROCARBONS			--	--	
EXTRACTABLE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE EXTRACTED			02-24-91	02-24-91	
DATE ANALYZED			02-25-91	02-25-91	
METHOD GC FID/3510			--	--	
as Diesel		0.05	ND	1.6	mg/L
as Motor Oil		0.5	ND	ND	mg/L

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
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- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
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SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.

6156

435 Tesconi Circle, Santa Rosa, CA 95401

CHAIN OF CUSTODY RECORD

PROJ. NO. 91-6		PROJECT NAME Durham Transportation				NO. OF CONTAINERS	TIPK-D TPK-G BTEX BOD/DO Volatiles Metals TOC					Please: Report to Lisa Blos Bill to Durham Trans. Thanks, REMARKS Normal TA
SAMPLERS: (Signature) Lisa G. Blos												
STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION							
	2/18/91	15:15		X	MW-8	6	X	X	X	X	X	
	↓	15:40		X	MW-9	6	X	X	X	X	X	

(CUSTODY SEALED 2-19-91)
 @ Lana Bennett 7:00 pm
 intact &

Relinquished by: (Signature) Lisa G. Blos	Date / Time 2/19/91 15:30	Received by: (Signature) Lana Bennett	Relinquished by: (Signature) Lana M. Bennett	Date / Time 2-19-91 7:00 pm	Received by: (Signature) —
Relinquished by: (Signature) —	Date / Time —	Received by: (Signature) —	Relinquished by: (Signature) —	Date / Time —	Received by: (Signature) —
Relinquished by: (Signature) (VIA NCS)	Date / Time —	Received for Laboratory by: (Signature) Kemp	Date / Time 2/20/91 0800	Remarks Samples from Toxic Technologies	