

California

15908 San Pablo Avenue
Suite 101
San Pablo, California 94806
(510) 232-8366 FAX (510) 232-9133



Oregon

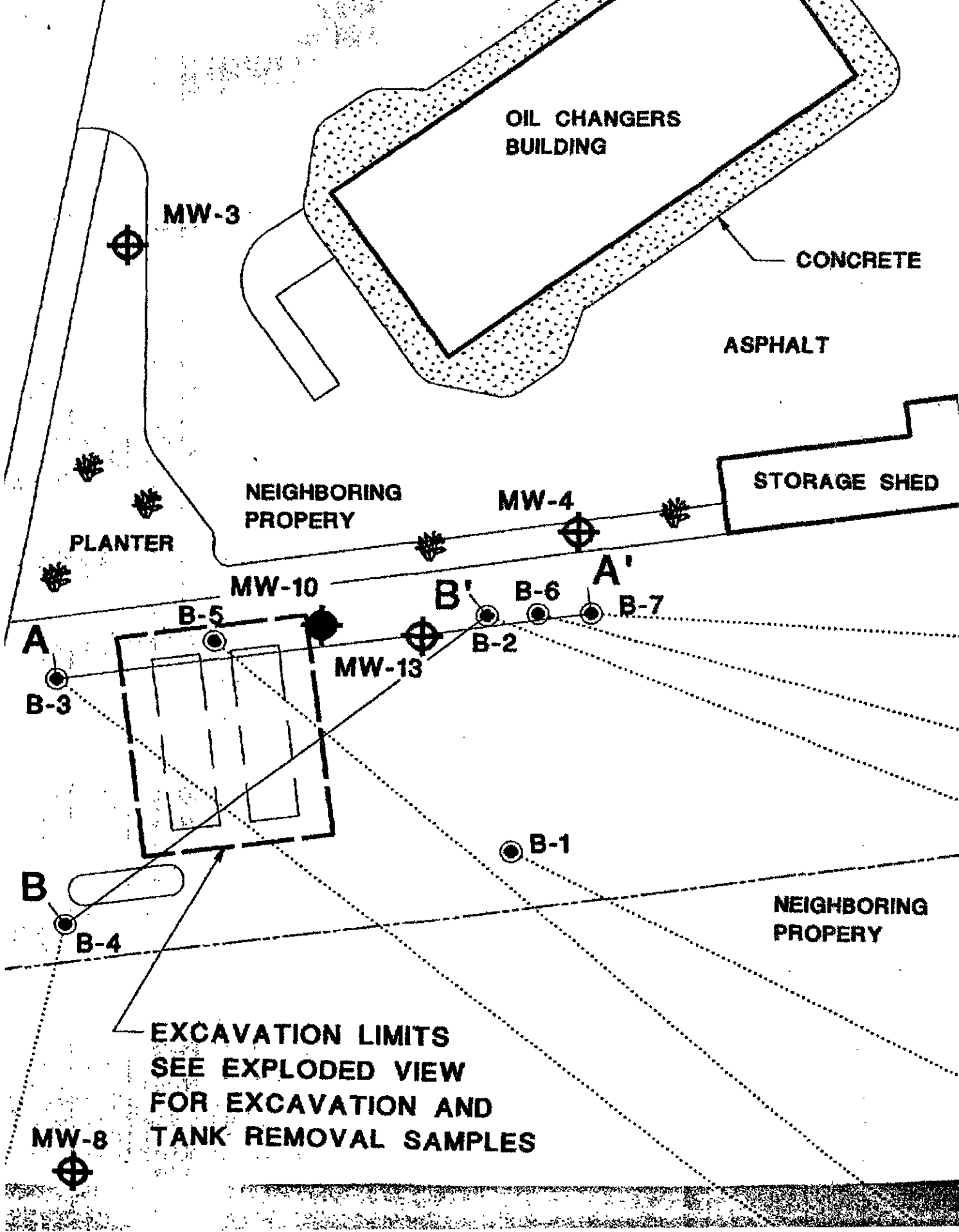
370 West Sixth Avenue
Suite A
Eugene, Oregon 97401
(503) 342-6608 FAX (503) 342-1632

Date: 1-7-93

Company Name:	HEALTH DEPT
Contact Name:	EVA Chew
Fax Number:	510-569-4757

Sender:	Tom Edwards
Description:	Boring samples - lab results
	Dodge Property
	Portion of Map w/ boring locations
	Draft of report tables (may contain typo's)

Number of pages:
If there are any problems with this transmission, please call: at (510) 232-8366 immediately.



OIL CHANGERS BUILDING

MW-3

CONCRETE

ASPHALT

PLANTER

NEIGHBORING PROPERTY

MW-4

STORAGE SHED

MW-10

B'

B-6

A'

B-7

A

B-5

MW-13

B-2

B-3

B-1

B

NEIGHBORING PROPERTY

B-4

EXCAVATION LIMITS
SEE EXPLODED VIEW
FOR EXCAVATION AND
TANK REMOVAL SAMPLES

MW-8

DRAFT

4.7 CHEMICAL ANALYSIS RESULTS OF SOIL AND GROUND WATER SAMPLES

All samples recovered were transported and submitted to Curtis & Tompkins, Ltd. (C&T) for chemical analysis. Selected samples were chemically analyzed for total volatile hydrocarbons (TVH) as Gasoline with benzene, toluene, ethylbenzene, total xylenes (BTEX).

All sampling, handling, and storage was conducted according to Environmental Protection Agency and Regional Water Quality Control Board guidelines for the investigation of suspected underground storage tank leaks.

Chemical analysis of the soil samples are presented below in Table 3, Chemical Analysis Results of Soil Boring Samples for TVH Gas and BTEX Soil Analysis. Certified analytical reports and chain-of-custody forms are included in Attachment 3. Chemical analysis of the two "grab" ground water samples are presented in Table 4, Chemical Analysis of "Grab" Ground Water Samples for TVH Gas and BTEX, and also in Attachment 3.

TABLE 3
CHEMICAL ANALYSIS RESULTS OF SOIL BORING SAMPLES FOR TVH GAS
AND BTEX (December 16, 1992)

DRAFT

Sample Number	Sample Depth (Feet)	TVH as Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
B-1-1	5-5½	1	19	<5	<5	<5
B-1-2	6½-7	NA	NA	NA	NA	NA
B-1-3	8-8½	NA	NA	NA	NA	NA
B-1-4	9½-10	<1	<5	<5	<5	<5
B-1-5	11-11½	NA	NA	NA	NA	NA
B-1-6	12½-13	NA	NA	NA	NA	NA
B-1-7	14-14½	NA	NA	NA	NA	NA
B-2-1	5-5½	NA	NA	NA	NA	NA
B-2-2	7-7½	3	960	74	310	550
B-2-3	9-9½	300	1,700	2,000	5,100	19,000
B-2-4	11-11½	320	1,900	3,400	2,800	15,000
B-2-5	13-13½	NA	NA	NA	NA	NA

DRAFT

Sample Number	Sample Depth (Feet)	TVH as Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
B-2-6	14½-15	ND < 1	6	<5	<5	<5
B-3-1	5½-6	NA	NA	NA	NA	NA
B-3-2	7-7½	2	260	<5	59	45
B-3-3	9½-10	200	<600	<600	3,000	<600
B-3-4	13-13½	300	<800	<800	9,500	<800
B-4-1	5½-6	NA	NA	NA	NA	NA
B-4-2	7½-8	<1	<5	<5	<5	<5
B-4-3	9½-10	<1	<5	<5	<5	<5
B-4-4	11½-12	NA	NA	NA	NA	NA
B-4-5	13½-14	NA	NA	NA	NA	NA
B-5-1	5½-6	NS	NS	NS	NS	NS
B-6-1	5½-6	17	520	900	330	1,100
B-7-1	5½-6	NA	NA	NA	NA	NA
B-7-2	7½-8	200	1,300	2,500	2,300	9,400
B-7-3	9½-10	300	1,200	5,600	4,600	23,000
B-7-4	11½-12	NA	NA	NA	NA	NA
B-7-5	13½-14	<1	6	6	<5	9

NA = NOT ANALYZED () = REPORTING LIMIT

DRAFT

TABLE 4
CHEMICAL ANALYSIS RESULTS OF "GRAB" GROUND WATER SAMPLES FOR
TVH GAS AND BTEX (December 16, 1992)

Sample Number	TVH as Gasoline (ug/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
B-2	8,900	830	370	290	690
B-4	<50	<0.5	<0.5	<0.5	0.6

NA = NOT ANALYZED () = REPORTING LIMIT

STOPPED HERE??!!

Re-survey selected existing groundwater monitoring wells in the vicinity of the site.

- Re-gauge the selected groundwater monitoring wells to evaluate groundwater flow direction and approximate groundwater gradient.

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Oregon

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(503) 542-6606 FAX (503) 542-1632

Date: 1-7-93

Company Name:	HEALTH DEPT
Contact Name:	EVA Chew
Fax Number:	510-569-4757

Sender:	Tom Edwards
Description:	Boring samples - lab results
	DODGE Property

Number of pages:
If there are any problems with this transmission, please call: at (510) 232-8366 immediately.



LABORATORY NUMBER: 109564
CLIENT: TMC ENVIRONMENTAL, INC
PROJECT ID: 107192
LOCATION: DODGE

DATE SAMPLED: 12/16/92
DATE RECEIVED: 12/17/92
DATE ANALYZED: 12/30/92
DATE REPORTED: 01/05/93

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
109564-1	B1-1	1	1
109564-8	B2-2	3	1
109564-12	B2-6	ND	1
109564-19	B4-2	ND	1
109564-23	B6-1	17	2
109564-28	B7-5	ND	1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: GC10

RPD, %	2
RECOVERY, %	94



LABORATORY NUMBER: 109564
CLIENT: TMC ENVIRONMENTAL, INC
PROJECT ID: 107192
LOCATION: DODGE

DATE SAMPLED: 12/16/92
DATE RECEIVED: 12/17/92
DATE ANALYZED: 12/30/92
DATE REPORTED: 01/05/93

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
109564-10	B2-4	320	8
109564-15	B3-3	200	8
109564-25	B7-2	200	8

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: GC07

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=====
RPD, %
RECOVERY, %
=====

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4
112



LABORATORY NUMBER: 109564
CLIENT: TMC ENVIRONMENTAL, INC
PROJECT ID: 107192
LOCATION: DODGE

DATE SAMPLED: 12/16/92
DATE RECEIVED: 12/17/92
DATE ANALYZED: 12/27, 28/92
DATE REPORTED: 01/05/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
109564-3	B1-4	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)
109564-14	B3-2	2	260	ND(5)	59	45
109564-20	B4-3	ND(1)	ND(5)	5	ND(5)	ND(5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: GC10

REF, %	9
RECOVERY, %	96



LABORATORY NUMBER: 109564
CLIENT: TMC ENVIRONMENTAL, INC.
PROJECT ID: 107192
LOCATION: DODGE

DATE SAMPLED: 12/16/92
DATE RECEIVED: 12/17/92
DATE ANALYZED: 12/30,31/92
DATE REPORTED: 01/05/93

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	SAMPLE ID	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)	REPORTING LIMIT * (ug/Kg)
109564-1	B1-1	19	ND	ND	ND	5
109564-8	B2-2	550	74	310	550	50
109564-10**	B2-4	1,900	3,400	2,800	15,000	600
109564-12	B2-6	6	ND	ND	8	5
109564-15**	B3-3	ND	ND	3,000	ND	600
109564-19	B4-2	ND	ND	ND	ND	5
109564-23	B6-1	520	500	330	1,100	50
109564-25**	B7-2	1,300	2,500	2,300	9,400	400
109564-28	B7-5	6	6	ND	9	5

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

** Analyzed by EPA method 8240.

QA/QC SUMMARY: MATRIX SPIKE RECOVERIES

Benzene
Toluene

73
76

LABORATORY NUMBER: 109564
 CLIENT: TMC ENVIRONMENTAL, INC
 PROJECT ID: 107192
 LOCATION: DODGE

DATE SAMPLED: 12/16/92
 DATE RECEIVED: 12/17/92
 DATE ANALYZED: 12/28, 29/92
 DATE REPORTED: 01/05/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
 TVH by California DOHS Method/LUFT Manual October 1989
 BTXE by EPA 5030/8020

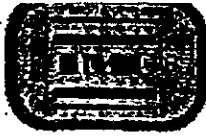
LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
109564-9	B2-3	300	1,700	2,000	5,100	19,000
109564-16	B3-4 ✓	300	ND(800)	ND(800)	9,500	ND(800)
109564-26	B7-3	300	1,200	3,600	4,600	23,000

0.1 ppb 50 500
 50
 0-1000 ppb

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: GC10

RPD, %	5
RECOVERY, %	100



TMC ENVIRONMENTAL, INC.
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CHAIN OF CUSTODY RECORD
 ANALYSIS REQUEST FORM

Project No. 107192 Project Name: DODGE Project Contact: MICHAEL PRINCEVALLE Page 1 of 3
 Project Address: 7400 AMADOR VALLEY BLVD. DOUBLIN CA Turnaround Time: 5 days
 Sampler: Marc Edwards Laboratory Name: CURTIS & TOMPKINS Lab No: 159

LAB ID NO.	DATE	TIME	SOIL	WATER	SAMPLE LABEL	TPH-GAS BTX	TPH-DIBEL BTX	ORGANIC LEAD	REMARKS ADDITIONAL ANALYSIS
109564 -1	12-16-92	0836	X		B1-1	X			Hold ✓
	12-16-92		X		B1-2	X			Sample not recovered
2	12-16-92	0850	X		B1-3	X			Hold
3	12-16-92	0858	X		B1-4	X			✓
4	12-16-92	0904	X		B1-5	X			Hold
5	12-16-92	0915	X		B1-6	X			Hold
6	12-16-92	0925	X		B1-7	X			Hold ?
7	12-16-92	0950	X		B2-1	X			Hold
8	12-16-92	0954	X		B2-2	X			✓
9	12-16-92	0956	X		B2-3	X			✓

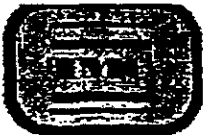
Relinquished By: (Signature) <i>Michael Princevalle</i>	Date: 12-17-92 Time: 4:00p	Received By: (Signature) <i>[Signature]</i>	Date: 12-17-92 Time: 4:00p
Relinquished By: (Signature) <i>[Signature]</i>	Date: 12-17-92 Time: 4:00p	Received By: (Signature) <i>[Signature]</i>	Date: 12-17-92 Time: 1600
Relinquished By: (Signature) <i>[Signature]</i>	Date: Time:	Received By: (Signature)	Date: Time:

Note: All samples were sealed with duct tape

INSPECTOR'S DAILY ACTIVITY REPORT

01/05/93
pg 2

<u>InspDate</u>	<u>Init /Assoc</u>	<u>Site ID#</u>	<u>Insp Hours</u>	<u>Activ.</u>	<u>Foll- Up</u>	<u>Company - Name / Zip</u>
.	Tuesday : 8.5
Total Hours:			15.25	from	11 entries	



TMC ENVIRONMENTAL, INC.
 13808 San Pablo Avenue, Suite 101
 San Pablo, California 94808
 (415) 232-8366 / FAX 232-5153

CHAIN OF CUSTODY RECORD
ANALYSIS REQUEST FORM

Project No. <u>102192</u>	Project Name: <u>DODGE</u>	Project Contact: <u>MICHAEL PENNEVILLE</u>	Page <u>2</u> of <u>3</u>
Project Address: <u>7400 AMADOR VALLEY BLVD. DUBLIN CA.</u>			Turnaround Time: <u>5 days</u>
Sampler: <u>MARC EDWARDS</u>		Laboratory Name: <u>CURTIS & TOMPKINS</u>	Lab No: <u>159</u>

LAB ID NO.	DATE	TIME	SOIL	WATER	SAMPLE LABEL	TPH-GAS BTX	TPH-ORGANIC BTX	ORGANIC LEAD	REMARKS ADDITIONAL ANALYSIS
<u>W9564-20</u>	<u>12/16/92</u>	<u>1010</u>	<u>X</u>		<u>B2-4</u>	<u>X</u>			<u>✓</u>
<u>-21</u>	<u>12/16/92</u>	<u>1014</u>	<u>X</u>		<u>B2-5</u>	<u>X</u>			<u>Hold</u>
<u>-22</u>	<u>12/16/92</u>	<u>1023</u>	<u>X</u>		<u>B2-6</u>	<u>X</u>			<u>✓</u>
<u>-23</u>	<u>12/16/92</u>	<u>1054</u>	<u>X</u>		<u>B3-1</u>	<u>X</u>			<u>Hold</u>
<u>-24</u>	<u>12/16/92</u>	<u>1100</u>	<u>X</u>		<u>B3-2</u>	<u>X</u>			<u>✓</u>
<u>-25</u>	<u>12/16/92</u>	<u>1110</u>	<u>X</u>		<u>B3-3</u>	<u>X</u>			<u>Hold ✓</u>
<u>-26</u>	<u>12/16/92</u>	<u>1118</u>	<u>X</u>		<u>B3-4</u>	<u>X</u>			<u>✓</u>
<u>-27</u>	<u>12/16/92</u>	<u>1136</u>	<u>X</u>		<u>B3-5</u>	<u>X</u>			<u>Hold</u>
<u>-28</u>	<u>12/16/92</u>	<u>1245</u>	<u>X</u>		<u>B4-1</u>	<u>X</u>			<u>Hold</u>
<u>-29</u>	<u>12/16/92</u>	<u>1255</u>	<u>X</u>		<u>B4-2</u>	<u>X</u>			<u>✓</u>

Relinquished By: (Signature) <u>Michael Penniville</u>	Date: <u>12-17-92</u>	Received By: (Signature) <u>[Signature]</u>	Date: <u>12-17-92</u>
Relinquished By: (Signature) <u>[Signature]</u>	Time: <u>4:00p</u>	Received By: (Signature) <u>[Signature]</u>	Time: <u>4:00p</u>
Relinquished By: (Signature) <u>[Signature]</u>	Date: <u>12-17-92</u>	Received By: (Signature) <u>[Signature]</u>	Date: <u>12-17-92</u>
	Time: <u>4:00p</u>		Time: <u>1600</u>
	Date:	Received By: (Signature)	Date:
	Time:		Time:



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 13808 San Pablo Avenue, Suite 101
 San Pablo, California 94806
 (415) 232-8366 / FAX 232-5133

**CHAIN OF CUSTODY RECORD
 ANALYSIS REQUEST FORM**

Project No: <u>102192</u>	Project Name: <u>DODGE</u>	Project Contact: <u>MICHAEL PRINCEVALLE</u>	Page <u>3</u> of <u>3</u>
Project Address: <u>7400 AMADOR VALLEY BLVD. DURHAM CA</u>			Turnaround Time: <u>5 days</u>
Sampler: <u>MARC EDWARDS</u>		Laboratory Name: <u>CURTIS & TOMPKINS</u>	Lab No: <u>159</u>

LAB ID NO.	DATE	TIME	SOIL	WATER	SAMPLE LABEL	TPH-GAS BTEX	TPH-DIESEL BTEX	ORGANIC LEAD	REMARKS ADDITIONAL ANALYSIS
<u>109564-20</u>	<u>12/16/92</u>	<u>1258</u>	<u>X</u>		<u>B4-3</u>	<u>X</u>			<u>✓</u>
<u>-21</u>	<u>12/16/92</u>	<u>1304</u>	<u>X</u>		<u>B4-4</u>	<u>X</u>			<u>Hold</u>
<u>-22</u>	<u>12/16/92</u>	<u>1310</u>	<u>X</u>		<u>B4-5</u>	<u>X</u>			<u>Hold</u>
<u>-23</u>	<u>12/16/92</u>	<u>1440</u>	<u>X</u>		<u>B6-1</u>	<u>X</u>			<u>✓</u>
<u>-24</u>	<u>12/16/92</u>	<u>1447</u>	<u>X</u>		<u>B7-1</u>	<u>X</u>			<u>Hold</u>
<u>-25</u>	<u>12/16/92</u>	<u>1452</u>	<u>X</u>		<u>B7-2</u>	<u>X</u>			<u>✓</u>
<u>-26</u>	<u>12/16/92</u>	<u>1512</u>	<u>X</u>		<u>B7-3</u>	<u>X</u>			<u>✓</u>
<u>-27</u>	<u>12/16/92</u>	<u>1523</u>	<u>X</u>		<u>B7-4</u>	<u>X</u>			<u>Hold</u>
<u>-28</u>	<u>12/16/92</u>	<u>1535</u>	<u>X</u>		<u>B7-5</u>	<u>X</u>			<u>✓</u>

Released By: (Signature) <u>Michael Princevalle</u>	Date: <u>12-17-92</u>	Received By: (Signature) <u>Michael Princevalle</u>	Date: <u>12-17-92</u>
Released By: (Signature) <u>John Dignetto</u>	Time: <u>4:00p</u>	Received By: (Signature) <u>John Dignetto</u>	Time: <u>4:00p</u>
Released By: (Signature)	Date: <u>12-17-92</u>	Received By: (Signature)	Date: <u>12-17-92</u>
Released By: (Signature)	Time: <u>4:00p</u>	Received By: (Signature)	Time: <u>1600</u>
Released By: (Signature)	Date:	Received By: (Signature)	Date:
Released By: (Signature)	Time:	Received By: (Signature)	Time:

LABORATORY NUMBER: 109563
 CLIENT: TMC ENVIRONMENTAL, INC.
 PROJECT ID: 107192
 LOCATION: DODGE

DATE SAMPLED: 12/16/92
 DATE RECEIVED: 12/17/92
 DATE ANALYZED: 12/29/92
 DATE REPORTED: 01/05/93

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions
 TVH by California DOHS Method/LUFT Manual October 1989
 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
109563-1	B-2	8,900	830	370	290	690
109563-2	B-4	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	0.6

Water Samples

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

RPD, %	5
RECOVERY, %	100

