97 MAR -6 AH 11: 12

April 12, 1996

Mr. G. Keith West General Motors Corporation Argonaut "A" - 1004H 485 W. Milwaukee Avenue Detroit, Michigan 48202

MN Installation (mw1-8)

Subject:

Report of Sampling and Analysis Activities of February 20 to March 1, 1996

for Work Plan Addendum #2

GMC TRUCK CENTER 8099 South Coliseum Way

Oakland, California

Dear Mr. West:

The following is a brief letter report presenting the findings of the field work conducted between February 20 and March 1, 1996 at the above referenced facility. The purpose of the work completed during this phase was to collect data to assist in determining the horizontal and vertical impact of fugitive hydrocarbons at the site. The scope of work was performed in accordance with the Work Plan for Further Site Assessment, GMC Truck Center, 8099 Coliseum Way, Oakland, California dated January 26, 1995 and the Work Plan Addendum 2 dated February 2, 1996.

The areas investigated under this phase of work included the areas around the underground storage tanks (USTs) formerly located on the south side of the main building, the oil/water separator located on the northeast side of the main building, and the area to the northwest of the main building. The field work included the advancement of eight borings, the collection of soil samples from those borings, the installation of eight 20-foot deep 4-inch diameter monitoring wells (MW-1 through MW-8), and the collection of eight groundwater samples from the new wells. The original Work Plan Addendum 2 called for the installation of ten monitoring wells with two of the wells placed on the CALTRANS Interstate 880 right of way to the southwest. Due to the length of time required to obtain site access from CALTRANS, these two wells were not installed. The locations of the wells are shown on the attached well location map. The well locations were selected in areas based upon previous assessment data.

#### Boring and Sampling Methods

Eight (8) borings were advanced using a truck mounted drill rig with a 10-inch diameter auger. Prior to boring each hole, all tools were steam cleaned to avoid cross contamination. The boring was supervised by a Groundwater Technology staff geologist who logged each boring in accordance with the Unified Soil Classification System.

Soil samples were collected with a continuous soil sampler. The samples were collected at depths of approximately 5-feet, 10-feet, 15-feet, and 20-feet below grade. Each soil sample was field screened for hydrocarbon vapors using a photoionization detector (PID). After field screening, select soil samples were immediately transferred to clean brass liners, sealed with aluminum foil, capped with plastic end caps, secured with tape, labeled, logged on the chain of custody form, and placed on ice in preparation of shipment to a GTEL Envorinmental Laboratories, Inc., a California certified laboratory for analysis.

After installation, the wells were purged, gauged and sampled. The groundwater samples were placed in new clean sample containers, labeled, logged on the chain of custody form, and placed on ice in preparation of shipment to GTEL Environmental Laboratories. Following the completion of the soil and groundwater sampling, the wells were surveyed.

#### Soil Sample Analysis

One soil sample from each boring and one groundwater sample from each well were submitted for laboratory analysis of TPH as gasoline according to EPA Method 5030/8015; BTEX according to EPA Method 8020; and hydrocarbon screening for compounds ranging from diesel fuel through motor oil using a gas chromatograph (GC) and a flame ionization detector (FID). The GC/FID method samples were prepared using EPA Method 3550 and were analyzed according to protocols commonly referred to as modified EPA Method 8015.

#### Soil Sample Results

The soil sample collected from near the north side of the property (boring MW-1 at a depth of 15 feet below grade) did not contain any constituents of concern. The soil samples from MW-2 (near the west property boundary) at a depth of 10 feet below grade, and MW-4 (near the east property boundary) at a depth of 10 feet below grade, only contained TPH as lube oil in concentrations of 22 and 1,100 milligram per kilogram (mg/Kg), respectively. All other constituents of concern were below the method detection limits in these samples.

The soil sample collected from near the oil/water separator (MW-3 at a depth of 10 feet below grade) contained benzene at a concentration of 310,000 micrograms per kilogram (ug/Kg), total xylenes at a concentration of 260,000 ug/Kg, TPH as gasoline at a concentration of 8,400 mg/Kg, TPH as mineral spirits at a concentration of 1,900 mg/Kg, and TPH as lube oil at a concentration of 1,300 mg/Kg.

The soil samples from near the former gasoline and diesel UST basins (MW-5 at a depth of 16 feet below grade and MW-6 at a depth of 15 feet below grade) contained TPH as gasoline at concentrations of 6.5 mg/Kg and .49 mg/Kg, respectively and 800 mg/Kg and 370 mg/Kg TPH as

lube oil, respectively. The soil sample from MW-5 contained total xylenes at a concentration of 5.5 micrograms per kiligram (ug/Kg). All other constituents of concern for these samples were below the method detection limits.

The soil samples from near the former waste oil UST (MW-7 at a depth of 10 feet below grade and MW-8 at a depth of 10 feet below grade) contained 1.4 ug/Kg and 2.2 ug/Kg benzene, respectively, 0.27 mg/Kg and 0.14 mg/Kg TPH as gasoline, respectively, and 460 mg/Kg and 2,200 mg/Kg TPH as lube oil, respectively.

#### **Groundwater Sample Results**

All of the groundwater samples contained TPH as lube oil ranging from 0.68 milligrams per liter (mg/L) in the sample from MW-3 (near the oil/water separator) to 11 mg/L in MW-6 (near the former gasoline and diesel USTs). The smaple from near the former waste oil UST (MW-8) also contained 4.6 micrograms per liter benzene and 0.16 ug/L TPH as gasoline. All other constituents of concern were less than the method reporting limits for BTEX, TPH as gasoline, and TPH as diesel.

#### Findings

Based on the results of the previous and current investigations, petroleum hydrocarbons are present in the soil predominantly in the area of the oil/water separator and the former USTs and in the groundwater near the former waste oil UST. The results also indicate that TPH as lube oil is present throughout the the groundwater at the site and in most of the soil under the site.

If you have any questions regarding the information contained in this report, please feel free to contact me at (913) 599-0262 or Ken Johnson at (510) 370-3990.

Sincerely.

Groundwater Fechnology, Inc.

Michael R. Sieczkowski CHMM

Project Manager

Kenneth P. Johnson R.G. Project Hydrogeologist

Attachments: Well Location Map

Table 1 Soil Analytical Results

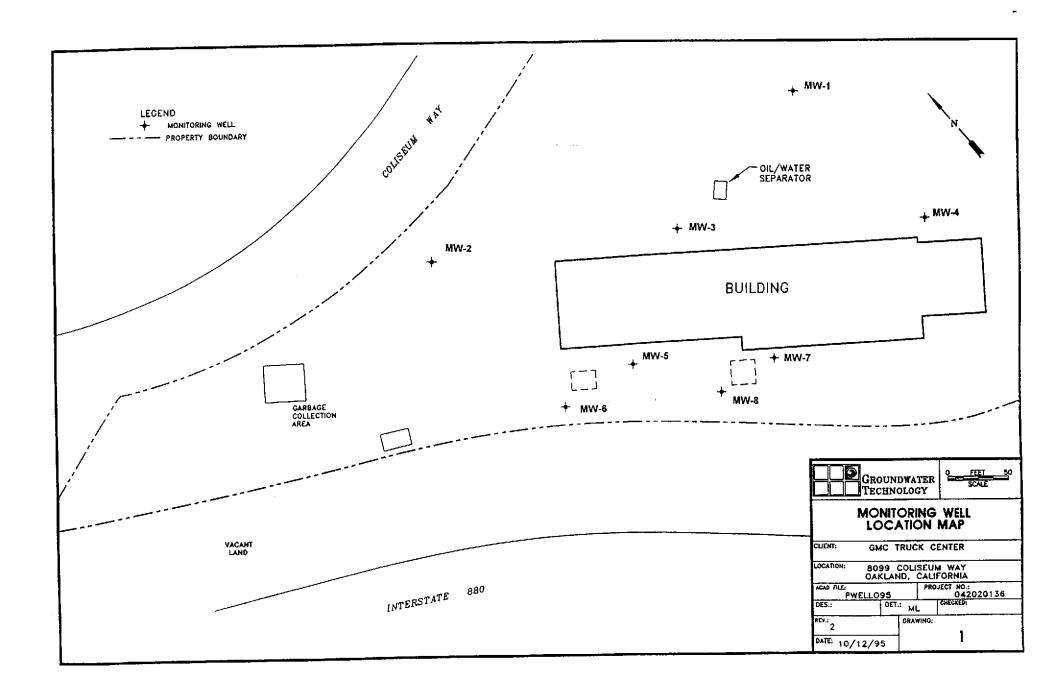
Table 2 Groundwater Analytical Results

Laboratory Data

Cahin of Custody Forms

c: B. Ferguson

C. Covert



# GROUNDWATER TECHNOLOGY, INC. GMC WHITE TRUCK CENTER

# TABLE 2 GROUNDWATER ANALYTICAL RESULTS MARCH 1, 1996

i I-Apr							
SAMPLE	Benzene	Toluene	Ethyl-	Total	TPH	TPH	TPH
LOCATION			benzene	Xylenes	Gasoline	Diesel	Lube Oil
	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)
MW-1	BDL	BDL	BDL	BDL	BDL	BDL	0.86
MW-2	BDL	BDL	BDL	BDL	BDL	BDL	1.6
MW-3	BDL	BDL	BDL	BDL	BDL	BDL	0.68
MW-4	BDL	BDL	BDL	BDL	BDL	BDL	1.4
MW-5	BDL	BDL	BDL	BDL	BDL	BDL	8
MW-6	BDL.	BDL	BDL	BDL	BDL	BDL	11
MW-7	BDL	BDL	BDL	BDL	BDL	BDL	2.9
MW-8	4.6	BDL	BDL	BDL	0.16	BDL	3.6

# GROUNDWATER TECHNOLOGY, INC. GMC WHITE TRUCK CENTER

#### TABLE 1 SOIL ANALYTICAL RESULTS MARCH 20-22, 1996

11-Apr								E Specialistic WEA	
SAMPLE	Sample	Benzene	Toluene	Ethyl-	Total	TPH	TPH	TPH	TPH
LOCATION	Depth			benzene	Xylenes	Gasoline	Mineral	Diesel	Lube Oil
	(feet)						Spirits		
		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
MW-1	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-2	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22
MW-3	10	310,000	BDL	BDL	260,000	8,400	1,900	BDL	1,300
MW-4	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,100
MW-5	16	BDL	BDL	BDL	5.5	6.4	BDL	BDL	800
MW-6	15	BDL	BDL	BDL	BDL	0.49	BOL	BDL	370
MW-7	10	1.4	BDL	BDL	BDL	0.27	BDL	BDL	460
MW-8	10	2.2	BDL	BDL	BDL	0.14	BDL	BDL	2,200



#### **Midwest Region**

4211 May Avenue Wichita, KS 67209 (316) 945-2624 (800) 633-7936 (316) 945-0506 (FAX)

March 13, 1996

Mike Sieczkowski Groundwater Technology. Inc. 15010 West 106th Street Lenexa, KS 66215

RE: GTEL Client ID:

040020487

Login Number:

W6030037

Project ID (number):

040020487

Project ID (name):

GMC/8099 COLISEUM WAY/OAKLAND/CA

#### Dear Mike Sieczkowski:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 03/02/96 under Chain-of-Custody Number(s) 40352.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

GTEL is certified by the Department of Health Service under Certification Number 1845.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Terry R. Loucks

Laboratory Director

GTEL Client ID:

040020487

Login Number:

W6030037

Project ID (number): 040020487 Project ID (name): GMC/8099

GMC/8099 COLISEUM WAY/OAKLAND/CA

Method: EPA 8020 Matrix: Aqueous

GTEL Sample Number	W6030037-01	W6030037-02	W6030037-03	W6030037-04
Client ID	MW1	MW2	MW3	MW4
Date Sampled	03/01/96	03/01/96	03/01/96	03/01/96
Date Analyzed	03/07/96	03/07/96	03/07/96	03/07/96
Dilution Factor	1.00	1.00	1.00	1.00

	Reporting					
Analyte	Limit	Units		Concentration:		
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes (total)	2.0	ug/L	< 2.0	< 2.0	< 2.0	< 2.0
TPH as Gas	100	ug/L	< 100	< 100	< 100	< 100

#### Notes:

#### Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

#### EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods", SW-846. Third Edition including Update 1.

GTEL Client ID:

040020487

Login Number:

W6030037

Project ID (number): 040020487

Project ID (name): GMC/8099 COLISEUM WAY/OAKLAND/CA

Method: EPA 8020 Matrix: Aqueous

W6030037-08	W6030037-07	W6030037-06	W6030037-05	GTEL Sample Number
MW8	MW7	MW6	MW5	Client ID
03/01/96	03/01/96	03/01/96	03/01/96	Date Sampled
03/07/96	03/07/96	03/07/96	03/07/96	Date Analyzed
1.00	1.00	1.00	1.00	Dilution Factor

	Reporting					
Analyte	Limit	Units		Concentration:		
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	4.6
ToTuene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes (total)	2.0	ug/L	< 2.0	< 2.0	< 2.0	< 2.0
TPH as Gas	100	ug/L	< 100	< 100	< 100	160

#### Notes:

#### Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

#### EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". SW-846. Third Edition including Update 1.

Project ID (Number): 040020487 Project ID (Name): GMC/8089

8099 S. Coliseum Way

Oakland, CA

Work Order Number: W6-03-0037 Date Reported: 03-13-96

#### **ANALYTICAL RESULTS**

### Hydrocarbon Screen in Water GC/FIDa

		40/112			······································			
GTEL S	ample Number	01	02	03d	04			
Clier	t Identification	MW-1	MW-1 MW-2 MW-3					
	Date Sampled	03-01-96	03-01-96	03-01-96	03-01-96			
	Date Extracted	03-06-96	03-06-96	03-06-96	03-06-96			
	Date Analyzed	03-09-96	03-09-96	03-09-96	03-09-96			
Analyte	Reporting Limit ug/L		Concentration	on, ug/L				
TPH as Diesel Fuel	50	<100	<400C	<100	<100			
TPH as Lubricating Oilb	200	860	1600	680	1400			
Dilution Multiplier		1 1 1 1						

- a ASTM Method D3328 (modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in EPA's publication, <u>Test Methods for Evaluating Solid Waste</u>, SW846, Third Edition, Revision 0, November 1986. Extraction per EPA 3510. This method is equivalent to the California LUFT manual DHS method for diesel fuel.
- b Lubricating oil can not be qualitatively identified by type of oil because of chromatogrpahic likeness of different oil types. Due to non-volatility of certain oils, much of the oil present may never be quantified by this gas chromatographic method. Quantitation obtained for lubricating oil by this method should, therefore, be treated as an estimate. This method quantifies lubricating oil against 10-W-40 standards. For the most accurate analysis of lubricating oil, an infrared method is recommended.
- c The reporting limit was elevated due to the presence of other petroleum hydrocarbons.
- d Material lighter than diesel fuel is present in the sample.

Project ID (Number): 040020487 Project ID (Name): GMC/8089

8099 S. Coliseum Way

Oakland, CA Work Order Number: W6-03-0037

Date Reported: 03-13-96

**ANALYTICAL RESULTS** 

# Hydrocarbon Screen in Water GC/FIDa

		40/115								
GTEL S	ample Number	05	06	07	08					
Clier	nt Identification	MW-5	MW-5 MW-6 MW-7							
	Date Sampled	03-01-96	03-01-96	03-01-96	03-01-96					
	Date Extracted	03-06-96	03-06-96	03-06-96	03-06-96					
	Date Analyzed	03-09-96								
Analyte	Reporting Limit ug/L		Concentration	on, ug/L						
TPH as Diesel Fuel	50	<2500°	<3500°	<800c	<850 <sup>C</sup>					
TPH as Lubricating Oilb	200	8000	11000	2900	3600					
Dilution Multiplier	1	1	1	1						

- a ASTM Method D3328 (modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in EPA's publication, <u>Test Methods for Evaluating Solid Waste</u>. SW846, Third Edition, Revision 0, November 1986. Extraction per EPA 3510. This method is equivalent to the California LUFT manual DHS method for diesel fuel.
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- c The reporting limit was elevated due to the presence of other petroleum hydrocarbons.
- d Material lighter than diesel fuel is present in the sample.

GTEL
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4080 PIKE LANE, SUITE C CONCORD, CA 94520 (510) 685-7852 (800) 423-7143

#### CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

40352

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#### **Midwest Region**

4211 May Avenue Wichita, K\$ 67209 (316) 945-2624 (800) 633-7936 (316) 945-0506 (FAX) March 1, 1996

Mike Sieczkowski Groundwater Technology, Inc. 15010 West 106th Street Lenexa, KS 66215

RE: GTEL Client ID:

040020487

Login Number:

W6020444

Project ID (number):

040020487

Project ID (name):

GMC/8099 COLISEUM WAY/OAKLAND/CA

#### Dear Mike Sieczkowski:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 02/23/96 under Chain-of-Custody Number(s) 36511.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

GTEL is certified by the Department of Health Service under Certification Number 1845.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

ard, Project Coordinator

Sincerely.

GTEL Environmental Laboratories, Inc.

Terry R. Loucks Laboratory Director

GTEL Client ID:

040020487

Login Number:

W6020444

Project ID (number): 040020487

Project ID (name): GMC/8099 COLISEUM WAY/OAKLAND/CA

Method: EPA 8020 Matrix: Low Soil

GTEL Sample Number	W6020444-01	W6020444-02	W6020444-03	W6020444-04
Client ID	MW-7(10')	MW-8(10')	MW-6(15°)	MW-5(16')
Date Sampled	02/20/96	02/20/96	02/21/96	02/21/96
Date Analyzed	02/27/96	02/27/96	02/27/96	02/28/96
Dilution Factor	1.00	1.00	1.00	1.00

	Reporting					
Analyte	Limit	Units	C	oncentration:Wet	Weight	
Benzene	1.0	ug/kg	1.4	2.2	≤ 1.0	< 1.0
Toluene	2.0	ug/kg	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	2.0	ug/kg	< 2.0	< 2.0	< 2.0	< 2.0
Xylenes (total)	4.0	ug/kg	< 4.0	< 4.0	< 4.0	5.5
TPH as Gasoline	100	ug/kg	270	140	490	6400
Percent Solids		%	90.8	88.6	79.0	76.1
Nahaa						

#### Notes:

#### Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

#### EPA B020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including Update 1.

#### W6020444-01:

Hydrocarbons in the gasoline range do not match the gasoline standard pattern.

GTEL Wichita, KS W6020444

Page: 1

GTEL Client ID:

040020487

Login Number:

W6020444

Project ID (number): 040020487

Project ID (name): GMC/8099 COLISEUM WAY/OAKLAND/CA

Method: EPA 8020

Matrix: Low Soil

GTEL Sample Number	W6020444-05	W6020444-07	W6020444-08	
Client ID	MW-2(10')	MW-1(15')	MW-4(10')	• •
Date Sampled	02/21/96	02/22/96	02/22/96	
Date Analyzed	02/28/96	02/28/96	02/28/96	
Dilution Factor	1.00	1.00	1.00	

	Reporting					
Analyte	Limit	Units	(	Concentration:Wet	Weight	
Benzene	1.0	ug/kg	< 1.0	< 1.0	< 1.0	7-7
Toluene	2.0	ug/kg	< 2.0	< 2.0	< 2.0	
Ethylbenzene	2.0	ug/kg	< 2.0	< 2.0	< 2.0	
Xylenes (total)	4.0	ug/kg	< 4.0	< 4.0	< 4.0	
TPH as Gasoline	100	ug/kg	< 100	< 100	< 100	
Percent Solids	70	*	83.9	79.9	79.9	# <del>*</del>

#### Notes:

#### Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

#### EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846. Third Edition including Update 1.

GTEL Wichita, KS W6020444

Page: 2

GTEL Client ID:

040020487

Login Number:

W6020444

Project ID (number): 040020487

Project ID (name): GMC/8099 COLISEUM WAY/OAKLAND/CA

Method: EPA 8020

Matrix: Solids

GTEL Sample Number	W6020444-06		• •	4 =
Client ID	MW-3(10')	* *		••
Date Sampled	02/22/96	••	• •	
Date Analyzed	02/29/96			• •
Dilution Factor	5.00			

	Reporting					
Analyte	Limit	Units	Concer	ntration:Wet	Weight	
Benzene	0.05	mg/kg	310	2.5		H-4
Toluene	0.10	mg/kg	< 0.50			
Ethylbenzene	0.10	mg/kg	< 0.50	300 00 00 00 00 00 00 00 00 00 00 00 00	2 10 20 20 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
Xylenes (total)	0.20	mg/kg	260			
TPH as Gasoline	10.	mg/kg	8400			
Percent Solids		*	81.9			
N-4		_		-	•	

#### Notes:

#### Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

#### FPA ROZO:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

#### W6020444-06:

Methanol extraction necessary due to high levels of target or non-target analytes.

GTEL Wichita, KS W6020444

Page: 1

Project Number: 040020487

GMC

8099 Coliseum

Way

Oakland, CA

Work Order Number: W6-02-0444

Date Reported: 03-01-96

#### ANALYTICAL RESULTS

### Hydrocarbon Screen in Soil GC/FID<sup>a</sup>

GTEL San	nple Number	01	02	03	04			
Client	Identification	MW-7 (10')	MW-8 (10')	MW-6 (15')	MW-5 (16')			
D	ate Sampled	02-20-96	02-20-96 02-20-96 02-21-96					
Da	ate Extracted	02-27-96	02-27-96					
D	ate Analyzed	03-01-96	03-01-96	03-01-96	03-01-96			
Analyte	Reporting Limit mg/Kg		Concentratio	n, mg/Kg				
TPH as Mineral Spirits	10	<50	<100	<50	<100			
TPH as Diesel Fuel	10	<50	<100					
TPH as Lubricating Oilb	10	460	2200	370	800			
Dilution Multiplier		5	10	5	10			
Percent Solids, %		90.8	88.6	79.0	76.1			

- a ASTM Method D3328 (modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in EPA's publication, <u>Test Methods for Evaluating Solid Waste</u>, <u>SW846</u>, Third Edition, Revision 0, November 1986. Extraction by sonication per modified EPA 3550. Results are calculated on a wet weight basis. This method is equivalent to the California LUFT manual DHS method for diesel fuel.
- b Lubricating oil can not be qualitatively identified by type of oil because of chromatographic likeness of different oil types. Due to non-volatility of certain oils, much of the oil present may never be quantified by this gas chromatographic method. Quantitation obtained for lubricating oil by this method should, therefore, be treated as an estimate. This method quantifies lubricating oil against 10-W-40 standards. For the most accurate analysis of lubricating oil, an infrared method is recommended.

Project Number: 040020487

GMC 8099 Coliseum

Way

Oakland, CA

Work Order Number: W6-02-0444

Date Reported: 03-01-96

#### **ANALYTICAL RESULTS**

### Hydrocarbon Screen in Soil GC/FID<sup>a</sup>

GTEL Sar	nple Number	05	06	07	80			
Client	Identification	MW-2 (10')	MW-2 (10') MW-3 (10') MW-1 (15')					
D	ate Sampled	02-21-96	02-21-96 02-22-96 02-22-96					
Da	ate Extracted	02-27-96 02-27-96 02-27-96 02-						
D	ate Analyzed	03-01-96	03-01-96	03-01-96	03-01-96			
Analyte	Reporting Limit mg/Kg		Concentration, mg/Kg					
TPH as Mineral Spirits	10	<10	<10 1900 <10					
TPH as Diesel Fuel	10	<10	<100					
TPH as Lubricating Oilb	10	22	1100					
Dilution Multiplier		1 30 1 10						
Percent Solids, %		83.9	81.9	79.9	79.9			

- a ASTM Method D3328 (modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in EPA's publication, <u>Test Methods for Evaluating Solid Waste</u>. SW846, Third Edition, Revision 0, November 1986. Extraction by sonication per modified EPA 3550. Results are calculated on a wet weight basis. This method is equivalent to the California LUFT manual DHS method for diesel fuel.
- b Lubricating oil can not be qualitatively identified by type of oil because of chromatographic likeness of different oil types. Due to non-volatility of certain oils, much of the oil present may never be quantified by this gas chromatographic method. Quantitation obtained for lubricating oil by this method should, therefore, be treated as an estimate. This method quantifies lubricating oil against 10-W-40 standards. For the most accurate analysis of lubricating oil, an infrared method is recommended.

GTEL
ENVIRONMENTAL LABORATORIES, INC

4080 PIKE LANE, SUITE C CONCORD, CA 94520 (510) 685-7852

#### CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

36511

LATOPATORIES, IN	(800) 423-7143									1									W	LŸ.	ŠIS	H	ūU	$\mathbf{K}$	7						23	Hij	THE	Ĥ.					
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					trix			Method Samplin				10	る	BTEX/Gas Hydrocarbons PID/FID ☐ with MTBE ☐	GC/FID	Profile (SIMDIS) 🗆	Grease 413.1 🗆 413.2 🗀 SM-503	TPH/IR 418.1  SM 503	EDB by 504 □ DBCP by	EPA 503.1 □ EPA 502.2	EPA 8010 □	EPA 602 🗆 EPA 8020 🗆	☐ 8080 ☐ PCB only	EPA 624/PPL 🗆 8240/TAL	EPA 625/PPL ☐ 8270/TAL ☐ NBS (+25)	Ö	👸	TCLP Metals 🗆 VOA	ority	D	200.7 🗆 7420 🗆 7421		Corrosivity   Flash Point   Reactivity						
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Mw-6(15")	<u>3 vi delika</u>	/	у	<u>/                                    </u>		12		Ş.,		¥.			2/	108	55	X	X									23					54 - 642				Ш		X.		
MW-5/61	u. 8		1					1 /2-1/2-12-00					00	y	X												1						1 1		X				
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MW-3(10)		V T	.(			T				ΧĪ			2/	07	35	χ	X																				X		
MW-1(15)	s Property	/	X	/ 3					Ì	<i>'</i>	Cast		1991	///		Y	X						3			. 5.	100	4	, v								$\overline{x}$		
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			wner <u>General Motors Corporation</u> Proj. No. <u>040020487</u>	See Site Map For Boring Location
Surface Elev. 10.15 ft. Top of Casing 9.79 ft. Screen: Dia 4 in. Casing: Dia 4 in. Fill Material Lonestar 2 Drill Co. Grega Drilling Driller Eric Christain Checked By Ken Johns	COMMENTS:  Submitted Mw-1 (15") sample to laboratory for analysis. Soil cuttings stored on-site in a 55-gallon steel drum pending proper disposal.			
Depth (ft.) Well Completion PID (ppm)	ON Structure) 20% to 35%, And 35% to 50%			
-2- -0-7- -2	10.	CL	FILL, Gravel  CLAY with some silt, grayish brown, records to Gravelly CLAY, medium to medium stiff, moist, odor  Grades to no gravel, trace medium splastic  Grades to stiff  Grades to increasing grain size (up)  End of boring at 1125. Installed mon	large clasts, greenish gray, and, some silt, dark gray, to fine gravel), wet



Project <u>Oakland</u> Location <u>8099 S</u>	Truck C . Colise	<u>Senter</u> um Way,	Oakla	and, CA	C	Owner <u>General Motors Corporation</u> Proj. No. <u>040020487</u>	See Site Map For Boring Location
Surface Elev. <u>10.</u> Top of Casing <u>9.</u>	10 ft. 72 ft.	. Total: . Water	Hole { Level	Depth 3 I Initial	20 ft 14 f	t. Diameter <u>10.5 in.</u> ft. Static <u>9.18 ft.</u> Type/Size <u>0.020 in.</u>	COMMENTS: Submitted MW-2 (10') sample to
Casing: Dia <u>4 in.</u>		. Lengti	h <u>5 f</u>	t		Type PVC Riser	laboratory for analysis. Soil cuttings stored on-site in a 55-gallon steel drum
Fill Material <i>Lone</i> Drill Co. <i>Gregg Dr</i>	<u>star 27</u> illing	12	Meth	od Holi	_ R 'ow S	lig/Core <u>Mobile B-61/5' continuous</u> Stem Auger	pending proper disposal.
Driller <u>Eric</u>		Log By	y <i><u>Bol</u></i>	b Fehr		Date <u>02/21/96</u> Permit #	
Checked By Ken	Johnso 11	Sample ID Blow Count/		_ Licer	se 1	No. RG #6254	
Depth (ft.) Welf Completion	ON tructure) 20% to 35%, And 35% to 50%						
2-							
				o: o:			
				0 0 0 0 0 0 0 0		FILL, Clay with some gravel and sand	d
2 - 7	0			0 0	Fill		
4 -				0 0			
	0	, 1	00%			CLAY with sand and gravel and some medium stiff, plastic, moist to wet	e organic matter, blue green,
8 -			30.43				
F 10 -	-	MW-2 (	(10)		CL		
						Grades to increasing organic conten	t, some interbedded peat
	0	K	20%				
			!	666	GP.	GRAVEL, fine grained, well sorted, sa	
- 16			V		o.p.	<ul> <li>SAND, medium grain, well sorted, satu</li> </ul>	
	0		50% A		SP	Grades to a poorly sorted coarse sa green gray, saturated	and to fine/medium gravel,
<u>- 18 → </u>		`	00%		CL	Silty CLAY with trace fine sand, med moist	ium brown, medium stiff, plastic,
20					uL		Starian vall
						- End of boring at 1450. Installed mor	ntoring wen.
22 -							
24 —							
00/14/0000 955000	n = 4 O T						Page Laft



Project Oakland True	ck Center		_ (	Owner <u>General Motors Corporation</u>	See Site Map For Boring Location			
Location <u>6099 S. Co</u>	ff Talak	akiana, LA	25 f	Proj. No. <u>040020487</u>				
Top of Casing 10.41	<u>:5</u>   Otal Ho <i>ft.</i>   Water Le	e Depth .	CU 1	t. Diameter <u>10.5 in.</u> Static <u>7.59 ft.</u>	COMMENTS:			
Screen: Dia 4 in.	Longth	verinitiar Sift		Static 7.39 11 Type/Size 0.020 in.	Cubantant a total			
Casing Dia 4 in.	Length .	5 ft		Type PVC Riser	Submitted MW-3 (10") sample to laboratory for analysis. Sail cuttings			
Fill Material Lonestar	cengui s r 2/12	/ / (.		Pic/Fore Mobile B-61/5' continuous	laboratory for analysis. Soil outlings stored on-site in a 55-gallon steel drum pending proper disposal.			
Drill Co. Greag Drilling	а м	ethad Hai	— г Іом :	Rig/Core <u>Mobile B-61/5" continuous</u> Stem Auger				
Driller Eric Christain	Log By	Bob Fehr		Date <u>02/22/96</u> Permit #				
Checked By <i>Ken Joh</i>								
			ю		<u> </u>			
Depth (ft.) Weil	(ppm) Sample ID Blow Count/	Graphic	Clas	Descripti	on			
Depth (ft.)	(ppm) mple I	3   de 0	SC	(Color, Texture, S				
o wo	iow (	ĕ	303	Trace < 10%, Little 10% to 20%, Some				
	1 0 m s		Ď		20% (0 20%, 2012 20%)			
<b>-</b> -2 <b>-    </b>								
<b> </b>								
	ļ							
	lj.	0 0		FILL, Sandy Clay, medium and coars	a sand madium brown plantic			
2 14 74		0 0		moist	e sand, medidii brown, piastic,			
	27	0 0						
	]}	0 0	Fill					
	1	0.0						
	Ì							
<b>├</b> 6 <b> </b>	Ì			CLAY with some fine sand, greenish	h gray, stiff, plastic, moist			
	000 1000			T	g, a j , carr, pracae, more			
<u> </u>	000			T-				
<b>├</b>	ļ			Grades to Gravelly CLAY with sand,	organic material, and wood.			
<b>-</b> 10 -	   MW−3 (10)			greenish black, stiff, moist, strong or				
<b>-</b> -     ≡   1								
- 12 -   =   2:				Grades to trace sand and gravel, inc	reasing organic matter soft			
_	36 40%			plastic	reasing organic matter, sort,			
<b>L</b> 14 → □ □ ≡ □ □	ŀ		}	'	+			
<u> </u>			CL					
_ 18 → <u> </u>	5%				;			
	]							
	}			Grades to CLAY, black, becomes med	dium stiff yory plantia grappinh			
- 20 - 1 = 1	(			gray, and wet at 24 feet	didni stiri, very piastic, greenisti			
-	[			g ,,				
<b>-</b> 22 -	_							
f 7	0 50%							
- 24 -								
		4/24	$\vdash$					
- 26 -				$\sim$ End of boring at 0815. Installed mor	nitoring well.			
<b> </b>		∬ I						
- 28 -								
1	1							
- 30 -								



Project <u>⊘</u>	)akland T	ruck C	<u>enter</u>	-		_ 0	wner General Motors Corporation	See Site Map   For Boring Location
Location .	8099 S.	Colise	um Wa	ıy, Oaklı	and, CA		Proj. No. <u>040020487</u>	roi buring Location
Surface E	Bev. <u>10.0</u>	7 ft.	. Tota	al Hole	Depth 2	20 f	Diameter <u>10.5 in.</u>	COMMENTS:
							ft. Static 2.96 ft.	
							Type/Size <u>0.020 in.</u>	Submitted MW-4 (10°) sample to
							Type <u>PVC Riser</u>	laboratory for analysis. Sall cuttings stored on-site in a 55-gallon steel drum pending proper disposal.
Fill Materia	al <u>Lones</u>	<u>tar 2/</u>	<u>12</u>			_ F	ig/Core Mobile B61/5' continuous	pending proper dispasar.
							Stem Auger	
							Date <u>02/22/96</u> Permit #	
Checked		TUTINGO			_ Licer		No. RG #6254	
1 _	Well Completion	_		Blow Count/ % Recovery	U	155.		
#£	e e	PID (ppm)	<u>e</u>	Jour Sou	E D	Cla	Descripti	on
Depth (ft.)	3 ₽	교요	m.	3 % Sec	Graphic Log	8	(Color, Texture, S	
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<u> </u>			1		0 0		Clayey GRAVEL with pieces of brick	, black, saturated
1 ,					0.0		SAND, well sorted, medium grain	
<b>上</b> 10 十			MW-4	(10)		SP	No Recovery	
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L 1	İ						- End of boring at 1435. Installed mor	nitoring well.
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Location 8099 S. Coliseum Way, Oakland, CA  Proj. No. 040020487  Surface Elev. 10.94 ft. Total Hole Depth 20 ft. Diameter 10.5 in.  Top of Casing 10.74 ft. Water Level Initial Static 5.71 ft.  Screen: Dia 4 in. Length 15 ft. Type/Size 0.020 in.  Casing: Dia 4 in. Length 3 ft. Type PVC Riser  Fill Material Lonestar 2/12 Rig/Core Mobile B-61/5' continuous  Drill Co. Grega Drilling Method Hollow Stem Auger  Driller Fric Christain Log By 80b Fehr Date 02/21/96 Permit #  Checked By Ken Johnson License No. RG #6254  Description  (Color, Texture, Structure)	Project Oakland Truck Center Owner General Motors Corporation See Site Map For Boring Location													
Surface Elev. 0.3-4 ft. Total Hole Depth 201f. Top of Casing Dia 4 ft. Screen Dia 4 ft. Length 55 ft. Length 55 ft. Type File Co200 in. Type File Received Adv. Length 55 ft. Length 55 ft. Type File Received Adv. Length 65 ft. Type File Received Adv. Length 65 ft. Type File Received Adv. Length 65	Location 8099 S. Coliseum Way, Oakland, CA Proj. No. 040020487													
Top of Casing 87.4f. Water Level Initial Static 57.7ft.  Spream Die 4 m. Length 5.ft. Type FVC Riscr  Till Naterial Longstar 2/12 Pig/Core Mobile 8-61/9' continuous  Drill Co. Gread Drilling Method Hollow Stem Auger  Drille Ediz Christian Log By Bot Pen Date 02/21/96 Permit #  Date 02/21/96 Permit #  Description  (Color, Texture, Structure)  Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%  FILL, CLAY with some sand and trace gravel, greenish brown, moist  FILL, CLAY with some sand and trace gravel, greenish brown, moist  FILL (clasts over 3-inches), black ooze, odor  FILL (clasts over 3-inches), black ooze, odor  FILL (clasts over 3-inches), black ooze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	Surface	Elev. 10.8	14 st.	_ Tot	al Hol	le De	≘pth ⊴	20 f	<u>f.                                    </u>	COMMENTS:				
Casing Dia 410. Length 31ft. Type PVC Riser Fill Material Longstar 2/12 Fill Material Longstar 2/12 Fill Material Longstar 2/12 Fill Material Longstar 2/12 Fill Material Longstar 2/12 Fill Constraint Long By Bob Febr. Date 02/22/99 First Fill Color, Texture, Structure) Fill Color, Texture, Structure, St	Top of Casing 10.74 ft. Water Level Initial Static 5.71 ft.													
Driller Elec Christalian Log By Bab Febr. Date 02/21/98 Permit #	Screen:	Dia <u>4 (f).</u>		_ Ler	igth 1	5 ft.			Type/Size <u>0.020 in.</u>	Submitted MW-5 (18') sample to				
Driller Elec Christalian Log By Bab Febr. Date 02/21/98 Permit #	Casing: [	Dia <u>4 IN.</u>	-4 0	_ Len	igth _	3 ft.			Type <u>PVC Riser</u>	stored on-site in a 65-gallon steel drum				
Driller File Christian  Log By Bob Fehr  Checked By Ken Johnson  Description  (Color, Texture, Structure)  Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill (clasts over 3-inches), black ooze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	Fill Mate													
Checked by Ken Johnson  License No. 86 #6254  Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%  FILL, CLAY with some sand and trace gravel, greenish brown, moist  FILL, CLAY with some sand and trace gravel, greenish brown, moist  FILL (clasts over 3-inches), black coze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	Drillor F	ric Christs	mmy ein	1	M6	≘thod	d <u>Hoi.</u> Cobr	IOW I	Stem Auger					
Clasts over 3-inches), black ooze, odor   CLAY, greenish gray, medium stiff, plastic, moist   Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist   CLAY with trace well sorted fine sand, green/gray, stiff, moist   CLAY with trace well sorted fine sand, green/gray, stiff, moist   CLAY with trace well sorted fine sand, green/gray, stiff, moist   CLAY with trace well sorted fine sand, green/gray, stiff,	Checked	Uniter <u>Fire Critiscanii</u> Log By <u>Bob Fehr</u> Date <u>02/21/96</u> Permit #												
FILL, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  CLAY, greenish gravel, greenish black  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish black  Fill, CLAY with some sand and trace gravel, greenish black  Fill, CLAY with some sand and trace gravel, greenish black  Fill, CLAY with some sand and trace gravel, greenish black  Fill, CLAY with some sand and trace gravel, greenish black  Fill, CLAY with some sand and trace gravel, greenish black  Fill, CLAY with some sand and trace gra	r													
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FILL, CLAY with some sand and trace gravel, greenish brown, moist  Fill (clasts over 3-inches), black doze, oddr  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	± pt	le!	무를	e e	Col	3	d d	Ö						
FILL, CLAY with some sand and trace gravel, greenish brown, moist  Fill (clasts over 3-inches), black doze, oddr  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	ے ا	- E M	∥ բ 🙃	i iii	3 0	<u> </u>	Jr.	S	(Color, Texture, S	tructure)				
FILL, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Grades to increasing gravel, greenish black  Fill (clasts over 3-inches), black coze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.		ŏ	<u> </u>	ហ	ě »	9		S	Trace < 10%, Little 10% to 20%, Some	20% to 35%, And 35% to 50%				
FILL, CLAY with some sand and trace gravel, greenish brown, moist  Fill, CLAY with some sand and trace gravel, greenish brown, moist  Grades to increasing gravel, greenish black  Fill (clasts over 3-inches), black coze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	L -2 -		1	ŀ										
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FILL, CLAY with some sand and trace gravel, greenish brown, moist  FILL, CLAY with some sand and trace gravel, greenish brown, moist  FILL (clasts over 3-inches), black coze, odor  FILL (clasts over 3-inches), black coze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	F0-		{			0	. 0							
FILL (clasts over 3-inches), black ooze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	ļ _					o	ಿಂ		ETIL CLAY with some sand and trac	a manual manual la Succession de la				
18.1  18.1  76.7  60x  60x  60x  60x  60x  60x  60x  60				-		lo:	0		FILL, CLAT WITH SOME SAND AND TRAC	e gravei, greenish brown, moist				
Grades to increasing gravel, greenish black  76.7  50%  Fill (clasts over 3-inches), black ooze, odor  FILL (clasts over 3-inches), black ooze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	F 2 -			<b>[</b>		ļa:	٠ ٥.							
Grades to increasing gravel, greenish black  76.7  50x  50x  50x  FM  FM  FILL (clasts over 3-inches), black ooze, odor  FILL (clasts over 3-inches), black ooze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	<b>}</b> -	<b>∦</b>	16.1			o.	0							
Grades to increasing gravel, greenish black  76.7  50x  50x  50x  FM  FM  FILL (clasts over 3-inches), black ooze, odor  FILL (clasts over 3-inches), black ooze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	- 4 -	∥  ≣	ł			o.	0 0							
FILL (clasts over 3-inches), black ooze, odor  12 - 16 - 18 - 72	'					0.	000							
FILL (clasts over 3-inches), black ooze, odor  12 - 16 - 18 - 72							റ്റ		-					
Fill (clasts over 3-inches), black ooze, odor  12 - 14 - 16 - 18 - 100%  MW-5 (16)  CLAY, greenish gray, medium stiff, plastic, moist  CL Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	<del>-</del> 6 -	∥  ≣		}		V <sub>o</sub>			Grades to increasing gravel, greenis	h black				
FILL (clasts over 3-inches), black ooze, odor  FILL (clasts over 3-inches), black ooze, odor  FILL (clasts over 3-inches), black ooze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	1	∥  ≡				Nο	0 0							
FILL (clasts over 3-inches), black ooze, odor  FILL (clasts over 3-inches), black ooze, odor  CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.		∥  ≣	76.7	-	50%	, Ho:	o	Fill .						
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- 14 - 163	<b> </b>	≡				Q.	0							
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- 14 - 163						W <sub>o</sub>	0 0		·					
CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	<b> </b> - 12 - <del> </del>	▍▕≣▎░				0	0 0	ļ						
CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	ļ		163		20%	} o.'	ွို							
CLAY, greenish gray, medium stiff, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	1 44	≣				l o	00							
CLAY, greenish gray, medium stirr, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.						Ho.	o i	}						
CLAY, greenish gray, medium stirr, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	F -	=				H°.	الرسدة							
CLAY, greenish gray, medium stirr, plastic, moist  Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	<b> </b> - 16 -			Mw_s	(4A)				OLAY magazid many 11 times					
Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.		∥  ≣[		14184-5	, (10)			İ	LLAY, greenish gray, medium stiff, pla	astic, moist				
Sandy CLAY with trace well sorted fine sand, green/gray, stiff, moist  End of boring at 1200. Installed monitoring well.	ſ		70		1000			ر ا						
End of boring at 1200. Installed monitoring well.	<b> </b> - 18 -		12		100%	TK		OL	Sandy CLAY with trace well sorted fi	ne sand dreen/dray stiff				
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End of boring at 1200. Installed monitoring well.	20													
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Project <u>Oakland Truck Center</u> Owner <u>General Motors Corporation</u> See Site Map  For Boring Location											
Location 8099 S. Coliseum Way, Oakland, CA Proj. No. 040020487 Surface Elev. 9.98 ft. Total Hole Depth 20 ft. Diameter 10.5 in.											
Surface Ele	v. <u>9.9</u>	COMMENTS:									
Top of Casi	ng <u>9.8</u>	o/_ft.									
Screen: Dia	4 In.		. Len	gth <u>75</u>	<i>ft.</i>		Type/Size <u>0.020 in.</u>	Submitted MW-8 (15') sample to			
Casing: Dia	4 ///.	+ or 7	Len	Type PVC Riser	labaratory for analysis. Sail cuttings stored on-site in a 55-gallon steel drum pending proper disposal.						
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Drill Co. <u>Gregg Drilling</u> Method <u>Hollow Stem Auger</u> Driller <u>Eric Christain</u> Log By <u>Bob Fehr</u> Date <u>02/21/96</u> Permit #											
Checked By Ken Johnson License No. RG #6254											
Checked by	_	1			Lice	,	NO. 110 #0254	<u> </u>			
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Depth (ft.)	well ompletion	PIO (ppm)	흦	Cou	aphic	<u>S</u>	Descripti				
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	ப்		ű	<u> </u>		oso	Trace < 10%, Little 10% to 20%, Some	20% to 35%, And 35% to 50%			
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16	$\equiv  \cdot $		MW-6	(15)			CLAY, dark gray, stiff, plastic, moist				
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Project <u>Oakland Truck Center</u> Owner <u>General Motors Corporation</u> See Site Map For Boring Location													
Location 8099 S. Coliseum Way, Oakland, CA Proj. No. 040020487  Surface Elev. 10.91 ft. Total Hole Depth 20 ft. Diameter 10.5 in.													
Surface	Elev. <u>10.9</u>	<u>11 ft.</u>	_ Tot	al Hole	Depth .	<u>20 f</u>	t. Diameter 10.5 in.	COMMENTS:					
Top of t	Casing <u>10.</u>	55 ft.	_ Wat	er Leve	el Initial	10.0	9 ft. Static 7.58 ft.						
Screen:	Dia <u>4 In.</u>		_ Len	gth <u>15</u>	<u>rt.</u>	····	Type/Size <u>0.020 in.</u>	Submitted MW-7 (IO') sample to					
							Type PVC Riser	laboratory for analysis. Soil cuttings stored on-site in a 55-gallon steel drum pending proper disposal.					
Tig/ObicTimes													
Drill Co. Gregg Drilling Method Hollow Stem Auger  Drillor Fric Christain London Bob Sehr Roll Co. 20/20/26													
Driller <u>Eric Christain</u> Log By <u>Bob Fehr</u> Date <u>02/20/96</u> Permit # Checked By <u>Ken Johnson</u> License No. <u>RG #6254</u>													
	Well	$\parallel$ $_{\sim}$		nt/ ery	U	5 5 5	Danasia II						
Depth (ft.)	l = i	PIO (mad)	<u> </u>	10 U	Graphic Log	Cla	Descripti	on					
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F 10 -	]  ≣[		MW-7	(10)	000		No Recovery, small amount of soil in	tin for laboratory					
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				1			Sandy CLAY, brown, plastic,moist						
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} -						}	End of boring at 1540. Installed mor	itoring well.					
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Project Oai	<u>kland 1</u>	ruck (	See Site Map For Boring Location								
Location 8	<u>099 5.</u> 										
Surrace Ele	:v. <u>10.7</u> :n.a. 10	13 ft 113 ft	- l'Ota	al Hole	Depth .	<u> 20 1</u> 8 5	t. Diameter 10.5 in.  ft. Static 3.92 ft.	COMMENTS:			
Lob or case	ing <u>~~.</u> .⊿in	<i>JJ</i> , <u>.</u> .									
Carina Nia	<u> </u>	_	Type/Size <u>0.020 in.</u> Type <u>PVC Riser</u>	Submitted MW-8 (10°) sample to laboratory for analysis. Soil cuttings							
Fill Material	Lones	 tar 2/	. Leng 119	ğuı <u>v</u>			Type 1 to noci	laboratory for analysis. Soil cuttings stored on-site in a 55-gallon steel drum pending proper disposal.			
Fill Material Lonestar 2/12 Rig/Core Mobile B-61/5' continuous pending proper disposal.  Drill Co. Gregg Drilling Method Hollow Stem Auger											
Driller <u>Eric Christain</u> Log By <u>Bob Fehr</u> Date <u>02/20/96</u> Permit #											
Checked By	, <u>Ken</u>	Joh <u>ns</u> c	n		Lice	1se l	No. RG #6254				
	Well Completion			Blow Count/ % Recovery	ပ	355.		·			
Depth (ft.)		PID (ppm)	ample	Cou	Braphic Log	S S	Descripti				
°C	3 mc	ا ق	due	o Ye	P. B.	တ္ပ	(Color, Texture, S				
<u> </u>	ŭ		ű	<u> </u>		တ္သ	Trace < 10%, Little 10% to 20%, Some	20% to 35%, And 35% to 50%			
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	144		ŀ		0 0		FILL, Gravelly CLAY, dark gray, soft,	plastic, odor, moist			
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L 8 -	<u> </u>	272		40%	0 0						
$\Gamma$	≣[				0 0		Grades to a Gravelly SAND, some de	bris, strong odor, medium stiff,			
	] = [				0.0		plastic, moist to wet				
- 10 -			MW-8	(10)	ه ه		Grades to CLAY, soft, plastic				
					7//		diades to GLAT, 3011, plastic				
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<b>l</b>		•		100.0			CLAY with trace sand, dark gray, stir	ff, moist			
- 14 <i>-</i>					$\mathbb{Z}$						
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10	ı≣⊩				<b>V</b> ///	L.					
<u> </u> 16	≣						CLAY with trace medium to coarse gr	ain sand, stiff, plastic, moist			
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<b>-</b> 18 <b>-</b>		36	1	100%							
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