

SUBSURFACE INVESTIGATION REPORT

for:

**Albany Ford Dealership
718 San Pablo Avenue
Albany, California**

prepared for:

Mr. Don Strough
c/o Cypress Coast Ford
#4 Geary Plaza
Seaside, CA 93955

August 4, 1994

8/16/94
Keep eyes on Wells possible
gradient variations.
Wells 1 & 3 are currently
not downgradient of
tank pits.

had extended 14-day
turn-around time for
g.w. samples.



CAMBRIA
Environmental Technology, Inc.

CAMBRIA
Environmental Technology, Inc.

RECEIVED
SH AUG 10 PM 4:13

Ms. Juliet Shin
Alameda County Health Care Services Agency
Department of Environmental Health
60 Swan Way, Room 200
Oakland, CA 94621

August 4, 1994

Re: Albany Ford Dealership
718 ~~817~~ San Pablo Avenue
Albany, CA
Cambria Project No. 10-102

Dear Juliet:

Enclosed is Cambria Environmental Technology's (Cambria's) report for the subsurface investigation we conducted at the above site in May and June 1994. The pertinent investigation results include:

- Hydrocarbons were detected in soil samples from only two of the nine borings, at a maximum concentration of 5,200 parts per million (ppm) Total Petroleum Hydrocarbons as Motor Oil (TPHmo).
- Trace concentration of Total Petroleum Hydrocarbons as Gasoline (TPHg) were detected in water samples from one well, and trace Total Petroleum Hydrocarbons as Diesel (TPHd) concentrations were detected in two wells.
- No benzene was detected in water samples from any of the wells. Two wells contained no BETX and the third contained only low toluene and xylenes concentrations.
- Ground water occurs about 9 ft below grade and flows toward the north-northeast.
- The compound detected in both soil and ground water appears to be primarily motor oil.

Based on these results it appears that there is no immediate need to conduct additional site investigation. The existing array of wells appears adequate for monitoring whether hydrocarbons or other compounds are leaching into ground water from soils next to the tank excavations. Although several of the site wells are not currently directly downgradient of the former tank locations, well MW-3 is an ideal downgradient guard well for the site that can be used to determine whether hydrocarbons or other compounds are migrating offsite. Regardless, due to the lack of available drilling locations, installation of additional downgradient wells is not possible, with the exception of the excavation D/E area.

Although our March 28 work plan indicated that we would report the results of water sampling for metals (Cd, Cr, Pb, Ni, Zn) we have not included these results in our report because they are not representative of actual ground water conditions. Instead, we propose to analyze the first samples collected during quarterly ground water monitoring for metals, as described below.

Why not?

Ms. Juliet Shin
August 4, 1994

CAMBRIA

Cambria recommends implementation of a ground water monitoring program for the site. The objectives of the monitoring are to:

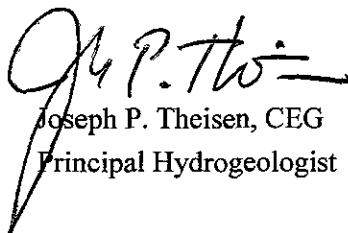
- Confirm the ground water flow direction. Since rainfall greatly influences subsurface flow patterns, it is likely that winter rains will shift the ground water flow direction towards the north, placing the existing wells directly downgradient of the tank excavations.
- Establish a reliable water quality data base to confirm the results of the initial sampling, and *is water?*
- Determine whether hydrocarbons and other compounds remaining in soil adjacent to the excavations are leaching into ground water.

Our recommended scope of work for the monitoring is to:

- 1) Collect ground water samples from each of the three site well once per quarter,
- 2) Analyze one water sample from each well quarterly for Petroleum Oil and Grease, TPHg and BETX. Also analyze the initial quarter's ground water samples for dissolved metals (Cd, Cr, Pb, Ni, Zn),
- 3) Measure the ground water depth in each well, and
- 4) Prepare a report of the investigation findings. The report will describe our sampling procedures, and will include tabulated chemical and water level data and a water level contour map. The last of the quarterly reports will summarize the year's data and will present recommendations for additional work, if any is warranted.

We can begin this sampling program upon your approval of this recommendation letter/work plan. Please call if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.


Joseph P. Theisen, CEG
Principal Hydrogeologist

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SUBSURFACE INVESTIGATION REPORT


for:

**Albany Ford Dealership
718 San Pablo Avenue
Albany, California**

prepared by:

Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, California 94608
Cambria Project #10-102

All work performed by Cambria Environmental Technology, Inc. for the project at 718 San Pablo Avenue, Albany, California was conducted under my supervision. To the best of my knowledge, the data contained herein are true and accurate and satisfy the scope of work prescribed by the client for this project. The data, findings, recommendations, specifications or professional opinions presented herein were prepared in accordance with generally accepted professional engineering and geologic practice. We make no other warranty, either expressed or implied.



Joseph P. Theisen, C.E.G. #1645
Principal Hydrogeologist



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EXECUTIVE SUMMARY

This report presents the results of the subsurface investigation conducted by Cambria Environmental Technology, Inc. (Cambria) at the Albany Ford Dealership at 718 San Pablo Avenue in Albany, California (Figure 1). The site is a former automobile repair facility and is located in a mixed commercial and residential area.

Between May 3 and 7 1994, Cambria drilled nine soil borings and installed three ground water monitoring wells at the site. Hydrocarbons were detected in samples from only two of the nine borings, at a maximum concentration of 5,200 parts per million (ppm) total petroleum hydrocarbons as motor oil (TPHmo), in the 10 ft depth sample from boring SB-B. Total Petroleum Hydrocarbons as Gasoline (TPHg) were detected in water samples from only one well, at 80 parts per billion in well MW-1. Trace Total Petroleum Hydrocarbons as Diesel (TPHd) concentrations (the maximum detected was 14 ppb) were detected in wells MW-1 and MW-2. No benzene was detected in water samples from any of the wells. Ground water occurs about 9 ft below grade and flows toward the north-northeast.

Based on a review of the project chromatograms, the compounds detected in both soil and ground water appear to be primarily motor oil. The limited distribution of hydrocarbons in soil adjacent to the former tank excavations indicates that the previous tank pit overexcavation successfully removed the majority of the released hydrocarbons. The only areas that appear to still contain elevated hydrocarbon concentrations are the soils adjacent to the northwest corner of excavation E/D and the soils immediately west of excavation A/B. The results of the ground water sampling suggest that the releases from the former tanks have not significantly impacted ground water at the site.

INTRODUCTION

This report presents the results of the subsurface investigation conducted in May and June 1994 by Cambria Environmental Technology (Cambria) at the Albany Ford Dealership at 718 San Pablo Avenue in Albany, California. Boring logs and well construction diagrams are presented in Appendix A. Analytic results for soil and ground water are presented in Tables 1 and 2, respectively, and the analytic reports are presented in Appendix B. Our standard field procedures are presented in Appendix C.

OBJECTIVES

This investigation was conducted as a follow-up to a July 1993 Underground Storage Tank (UST) removal project at the site. The objectives of our investigation were to determine the ground water flow direction at the site, to evaluate whether ground water was impacted by compounds apparently released from the former onsite USTs and to assess the extent of released compounds remaining in soil adjacent to the former tank excavations.

SITE BACKGROUND

The site is located on the west side of San Pablo Avenue between Washington and Castro Streets in Albany, California. Topography in the area slopes to the northeast, away from Albany Hill, and toward Cerrito Creek, which is about 2,000 ft north of the site. Cerrito Creek flows westward.

PREVIOUS INVESTIGATIONS

Cambria's investigation was performed based on the results of the UST removal project conducted at the site by Subsurface Environmental Corp. of San Francisco, (SEC) between April and July 1993. SEC removed five USTs, overexcavated as much contaminated soil as possible given site constraints, and collected soil

and ground water samples from the excavation sidewalls and floors. The tanks were buried in three separate areas of the facility, requiring three separate excavation pits. The removed USTs ranged in size from 300 to 550 gallon and had contained a variety of products including waste oil, gasoline and radiator coolant (antifreeze). The sampling results are summarized below. A complete description of the tank use history and tank removal sampling are included in the SEC's October 20, 1993 Tank Removal Report.

All five tanks were heavily corroded and contained numerous holes. Soil sampling after the tank removal detected gasoline, diesel and motor oil-range hydrocarbons in soil adjacent to or beneath all the tanks except Tank A (Figure 1). Oil and Grease range hydrocarbons were the predominant hydrocarbons detected for each of the four tanks with positive sampling results. Although none of the samples contained metals above regulatory guidelines, tetrachloroethene (PCE) and trichloroethane (TCA) were detected in two samples from Tank B. Ground water was encountered in the Tank "D/E" excavation at a depth of about 11.5 ft. A grab water sample from the excavation contained 2,100 parts per billion (ppb) total petroleum hydrocarbons as diesel (TPHd) and 80 ppb TPH as gasoline (TPHg). However, no elevated metals, chlorinated or aromatic hydrocarbons were detected.

However, they did have to conduct a wet test on Chrom.

Since the tanks were located adjacent to load-bearing walls and/or the property lines, not all contaminated soils could be removed by overexcavation. Because of this and the soil sampling analytic results, the Alameda County Department of Environmental Health (ACDEH) requested the installation of ground water monitoring wells to determine whether the released hydrocarbons impacted ground water.

INVESTIGATION RESULTS

A total of nine soil borings were drilled during the investigation. Three borings were drilled adjacent to the Tank A/B excavation; four were adjacent to the Tank D/E excavation; two were drilled adjacent to the Tank C excavation. The borings were located from three to five ft from the edge of the former excavations to determine the extent of released compounds in soil. The borings extended several feet below the anticipated ground water depth. Grab water samples were collected from each borehole that accumulated water.

SOIL BORINGS

- Permits:** No permits were required for the soil borings. Monitoring well permits were obtained from the Alameda County Flood Control District (Zone 7).
- Drilling Dates:** May 3 to 5, 1994.
- Drilling Methods:** Solid flight augers for borings used only for soil and grab water sampling and hollow-stem augers for borings converted to wells.
- Number of Borings:** Eleven borings were started. However, two borings were aborted because buried concrete structures caused auger refusal (Figure 1).
- Boring Depths:** 13.5 to 26.5 ft below grade (Appendix A).
- Sediment Lithology:** Clayey to sandy silt was encountered to the total depth explored in every boring except SB-G. SB-G encountered silty to sandy gravel to the explored depth of 15 ft (Appendix A).
- Soil Analyses:** At least one soil sample from each boring was analyzed for:
- TPHg by modified EPA Method 8015,
 - TPHd by modified EPA Method 8015,
 - Total Petroleum Hydrocarbons as Motor Oil (TPH-mo) by modified EPA Method 8015, and
 - Benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8020.

How about 8270 or 8010? or metals?

Grab Water Samples: Grab water samples were collected with disposable bailers from boring SB-C, SB-B, SB-D and SB-H. None of the other borings contained sufficient water to sample.

Waste Disposal: Soil cuttings were stockpiled on and covered with plastic sheeting.

WELL CONSTRUCTION

Since a minimum of three monitoring wells were needed for this investigation to determine the onsite ground water flow direction, wells were installed in the anticipated downgradient direction from each of the three former excavations. In this way, we were able to determine the onsite ground water flow direction and to evaluate water quality adjacent to each potential source with a minimum number of wells. To position the wells, we anticipated that the local ground water flow direction was toward the northeast. This estimate was based on the local topographic gradient and on the proximity of Cerrito Creek. Consequently, well MW-1 was installed northeast of former Tank Pit C, MW-2 was installed northeast of Tank Pit E/F and well MW-3 was installed northeast of Tank Pit A/B (Figure 2). Each well is within 10 ft of the edge of the former tank pit.

Well Materials: All wells were constructed using two-inch diameter, 0.010-inch slotted Schedule 40 PVC well screen and well casing.

Screened Interval: At the end of the first day of drilling when well MW-2 was constructed, ground water was about 14 ft below grade in the open boring. Therefore, well MW-2 was constructed with a 10 to 25 ft screened interval. Since ground water eventually stabilized in this well overnight at about 10 ft depth, the remaining wells were screened between five ft depth and 20 ft depth, which is 5 ft above and ten ft below the static water table (Appendix A).

Development Method: Wells were developed using surge block agitation and purged by bailing (Appendix C).

Ground Water Analyses: Ground water samples from the borings and wells were analyzed for:

- TPHg by modified EPA Method 8015,
- TPHd by modified EPA Method 8015,
- TPHmo by modified EPA Method 8015,
- BETX by EPA Method 8020,
- Halogenated Volatile Organic Compounds (HVOCs) by EPA Method 8010, and
- Semi-Volatile and Acid Extractable Organic Compounds by EPA Method 8270, and

How about metals?

Gradient and Flow Direction:

Ground water flows north-northeastward at about 0.015 ft/ft (Figure 3). The wells were surveyed to an onsite datum that was assigned an arbitrary elevation of 100 ft.

Waste Disposal:

Purge water from the borings and wells and steam clean rinseate were stored in D.O.T. approved 55-gallon drums pending disposal.

CONTAMINANT DISTRIBUTION IN SOIL

At least one soil sample was collected from within one ft of the static water level in each boring, which is the area likely to contain the highest contaminant concentrations. Only the samples from borings SB-B and SB-G contained hydrocarbons above method detection limits (Table 1). The maximum concentration detected was 5,200 ppm TPHmo in SB-B and 500 ppm TPHd in SB-G. Based on the very low BETX concentrations and the lower TPHd results compared to the TPHmo results, it appears that motor oil constitutes most of the detected hydrocarbons in both soil and water. A review of the project chromatograms by NET, the analytical laboratory that performed the analyses, supports this contention. NET indicated that the detected TPHd are probably the light end of motor oil, but that the TPHg results are valid.

Based on the analytic results for soil samples and on observations made during drilling, hydrocarbons in soil appear limited to the Northwestern sides of excavations D/E and A/B. The analytic results also suggest that the previous overexcavation succeeded in removing the majority of the contaminated soils.

GROUND WATER QUALITY AND FLOW DIRECTION

Trace concentrations (80 ppb) of Total Petroleum Hydrocarbons as Gasoline (TPHg) were detected in water samples from well MW-1, and trace Total Petroleum Hydrocarbons as Diesel (TPHd) concentrations (90 and 140 ppb, respectively) were detected in wells MW-1 and MW-2. None of the water samples except the MW-1 sample contained BETX (Table 2). The individual BETX compounds detected in well MW-1 were below California Department of Toxic Substance Control (DTSC) maximum contaminant levels (MCLs) for drinking water. None of the water samples contained Halogenated Volatile Organic Compounds (HVOCs) or Semi-Volatile Organic Compounds (SVOCs).

Although three of the four grab water samples contained BETX, the detected benzene concentrations were only slightly higher than DTSC MCLs. Due to differences in sampling techniques, analytic results for grab water samples are typically higher than the results for sampling permanent monitoring wells. Grab samples are collected from ground water that infiltrates into open boreholes that are usually drilled only 1 to 3 ft below the water table. Since the infiltrating water originates near the capillary fringe where hydrocarbon concentrations are highest, the grab samples typically contain higher relative hydrocarbon concentrations. Since monitoring wells typically penetrate at least five and usually ten or more ft into the water table, samples from monitoring wells typically contain lower relative hydrocarbon concentrations since the well samples are representative of a greater thickness of saturated sediments.

Based on the water levels measured in site wells, ground water at the site flows towards the north-northeast. This flow direction places the wells downgradient and slightly crossgradient of the three tank excavations.

FIGURES

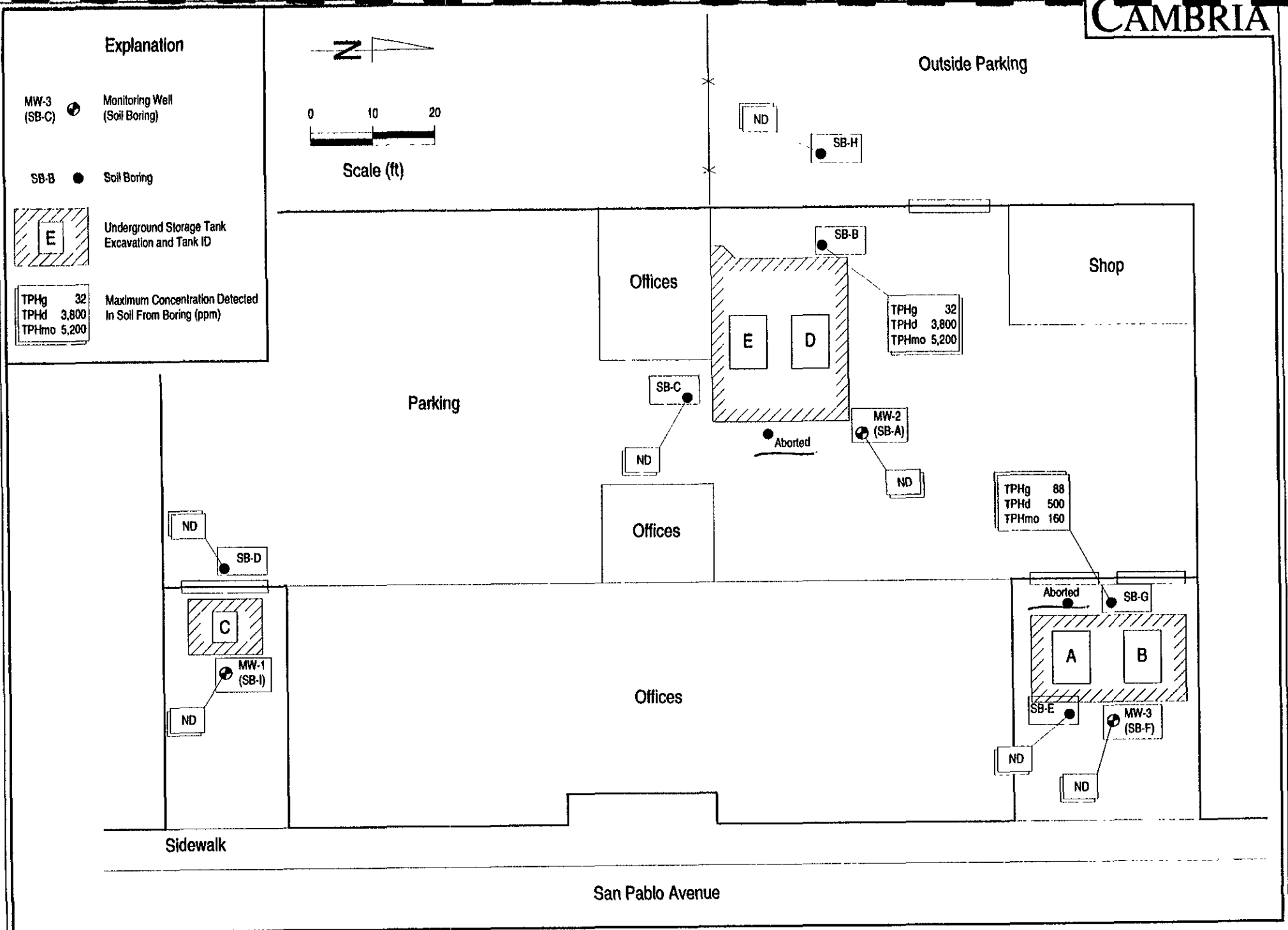


Figure 1. Soil Boring and Monitoring Well Locations and Hydrocarbon Concentrations in Soil - Albany Ford Dealership - 718 San Pablo Avenue, Albany, California

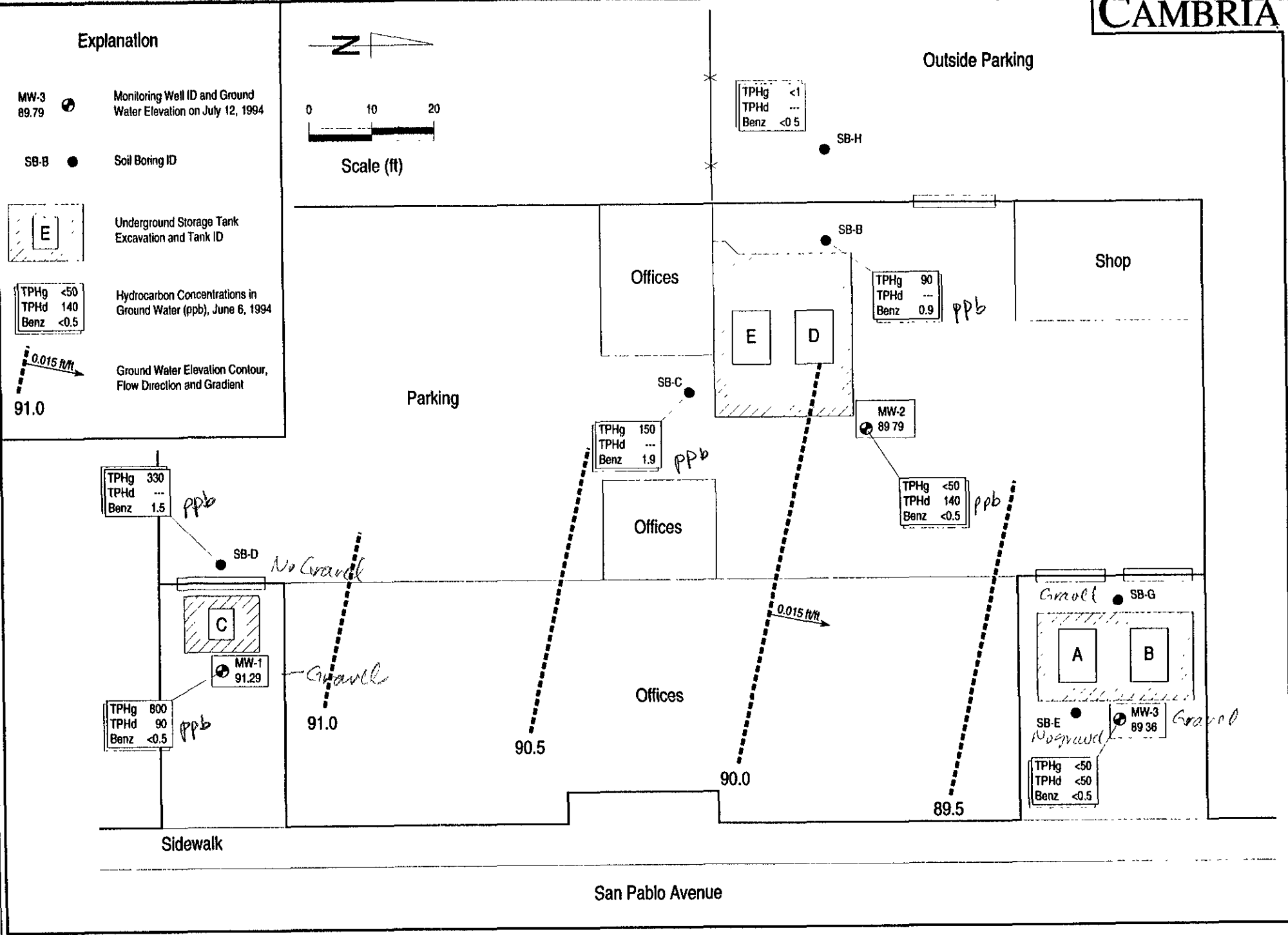


Figure 2. Ground Water Elevations and Hydrocarbon Concentrations - Albany Ford Dealership - 718 San Pablo Avenue, Albany, California

TABLES

Table 1. Soil Analytic Data - Albany Ford Dealership - 718 San Pablo Avenue, Albany, California

Boring/ Well ID	Date Sampled	Sample Depth (ft)	GW Depth (ft)	TPHg	TPHd	TPHmo	(Concentration in ppm)				Notes
							B	T	E	X	
SB-A	5/3/94	11	14.8	<1	<1	<10	<0.0025	<0.0025	<0.0025	<0.0025	
SB-B	5/3/94	11	13.0	32	3,800	5,200	<0.0025	0.013	<0.0025	0.52	a,b
SB-C	5/3/94	11	9.3	<1	<1	<10	<0.0025	<0.0025	<0.0025	<0.0025	
SB-D	5/4/94	11	9.5	<1	<1	<10	<0.0025	<0.0025	<0.0025	<0.0025	
SB-E	5/4/94	5	--	<1	--	--	<0.0025	<0.0025	<0.0025	<0.0025	
	5/4/94	10		<1	<1	<10	<0.0025	<0.0025	<0.0025	<0.0025	
SB-F	5/4/94	5	9.5	<1	--	--	<0.0025	<0.0025	<0.0025	<0.0025	
	5/4/94	10		<1	<1	<10	<0.0025	<0.0025	<0.0025	<0.0025	
SB-G	5/4/94	5	--	2.4	--	--	<0.0025	<0.0025	<0.0025	<0.0025	a
	5/4/94	10		88	500	160	0.0086	0.024	0.083	1,200	
SB-H	5/4/94	11	--	<1	<1	<10	<0.0025	<0.0025	<0.0025	<0.0025	
SB-I	5/5/94	10	9.5	<1	<1	<10	<0.0025	<0.0025	<0.0025	<0.0025	

Abbreviations

GW = Ground water
 TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
 TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
 TPHmo = Total petroleum hydrocarbons as motor oil by modified EPA Method 8015

B = Benzene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 X = Xylenes by EPA Method 8020

Notes

Water depth measured after stabilization in borhole. Water level in some borings did not stabilize in the time available

a = The positive TPHg result appears to be a heavier hydrocarbon than gasoline
 b = The positive TPHd result appears to be a heavier hydrocarbon than diesel

Table 2. Ground Water Elevation and Analytic Data, 718 San Pablo Avenue, Albany, California

Well/ Boring ID	Date Sampled	TOC Elevation	GW Depth (ft)	GW Elevation (ft)	TPHg	TPHd	TPHmo	B	T	E	X	HVOC/ SVOC	Notes
(Concentration in ppb)													
MW-1	6/9/94	99.12	7.83	91.29	80	90	<500	<0.5	53	<0.5	1.2	ND	a,b,c
MW-2	<i>Typo</i> 8/8/94	99.23	9.44	89.79	<50	140	<500	<0.5	<0.5	<0.5	<0.5	ND	a,b
MW-3	6/9/94	98.46	9.10	89.36	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	ND	b,d
SB-C GW	5/4/94	--	10.00	--	150	--	--	1.9	5.4	5.2	41	--	e
SB-B GW	5/4/94	--	10.00	--	90	--	--	0.9	2.0	0.7	2.9	--	e
SB-D GW	5/5/94	--	10.00	--	330	--	--	1.5	<0.5	2.0	2.4	--	e
SB-H GW	5/5/94	--	10.00	--	<1	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	e

Abbreviations

TOC Elevation = Top of casing elevation with respect to onsite benchmark
 GW = Ground water
 LPH = Liquid-phase hydrocarbons
 TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
 TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
 TPHmo = Total petroleum hydrocarbons as motor oil by modified EPA Method 8015
 HVOC = Halogenated Volatile Organic Compound
 SVOC = Semi-Volatile Organic Compound

B = Benzene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 DTSC MCLs = Department of Toxic Substances Control maximum contaminant level for drinking water
 NE = Not established
 ND = None Detected (Detection limits vary, check laboratory analytic report)

Notes

a = The positive TPHd result appears to be a hydrocarbon lighter than diesel
 b = Grab water sample collected from open borehole; GW Depth approximate, measured during drilling
 c = 0.7 ppb 1,2 Dichloroethane detected in sample; DTSC MCL = 0.5 ppb
 d = 1.1 ppb 1,1,1 Trichloroethane detected in sample; DTSC MCL (proposed) = 200 ppb
 e = Ground water sample collected from open borehole

APPENDIX A

Boring and Well Construction Logs

DRILLING LOG

Client: **Albany Ford and Subaru**

Project No: **10-102**

Phase **4**

Task **4**

Boring ID **SB-A**

Well ID

MW-2

Location **718 San Pablo Avenue, Albany**

Surface Elev. --- ft,

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth Feet	Well Construction Details
0	Ground Surface						0	T.O.C. Elev. 99.23
			Concrete floor and base rock					
			SILT Brown; hard; damp; <5% clay, 95% silt, 5% fine sand; low plasticity; low to moderate estimated hydraulic conductivity.					Locking well-plug beneath traffic-rated vault
5	15 33 42	X					5	
10	14 27 28	X					10	
15	8 11 19	X	Clayey SILT Tan with orange mottling; hard; wet; 15% clay, 80% silt, 5% sand; medium plasticity; low estimated hydraulic conductivity. No hydrocarbon odor.				15	No sample recovery at 15 ft depth
20	7 15 23	X					20	
25	17 29 36	X	Sandy SILT Brown; hard; wet; 50% silt, 30% sand, 20% gravel; no to low plasticity, moderate estimated hydraulic conductivity. No hydrocarbon odor.				25	Well bottom
30							30	

Driller Soils Exploration	Development Yield N/A	Bentonite Seal 7.5 to 9.5 ft
Logged By N. Scott MacLeod	Well Casing 2 Dia. 0 to 10	Sand Pack Monterey sand
Drilling Started 5/3/94	Casing Type Schedule 40 PVC	Sand Pack Type #2/16
Drilling Completed 5/3/94	Well Screen 2 Dia. 10 to 25	Static Water Level 9.40 ft Depth
Construction Completed 5/3/94	Screen Type Schedule 40 PVC	Date 5/4/94
Development Completed 5/27/94	Slot Size 0.010-inch	Notes: _____
Water Bearing Zones N/A	Drilling Mud N/A	_____
	Grout Type Portland cement	_____

WELL 10102 7/12/94

BORING LOG

Client: **Albany Ford and Subaru**

Project No: **10-102**

Phase **4**

Task **4**

Boring ID **SB-B**

Location **718 San Pablo Avenue, Albany**

Surface Elev. --- ft,

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		Concrete floor and base rock				0	
5	17 30 48	X	Sandy SILT Greenish-brown; very soft; moist to wet; <5% clay, 60% silt, 30% sand, 10% gravel; no to low plasticity; moderate estimated hydraulic conductivity. Strong heavy hydrocarbon odor in some soil peds. Possible backfill.				5	
10		X	Sandier at 10 ft depth. Moderate heavy hydrocarbon odor.				10	
15	6 19 21	X	SILT Orange-brown; hard; wet; 15% clay, 80% silt, 5% sand; moderate to high plasticity, low estimated hydraulic conductivity. Hydrocarbon sheen on soil samples.	32			15	Bottom of boring
20							20	
25							25	
30							30	

Driller Soils Exploration	Drilling Started 5/3/94	Notes: _____
Logged By N. Scott MacLeod	Drilling Completed 5/3/94	_____
Water-Bearing Zones N/A	Grout Type Portland cement	_____

BORING LOG

Boring ID **SB-C**

Client: **Albany Ford and Subaru**

Location **718 San Pablo Avenue, Albany**

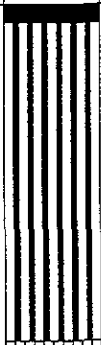
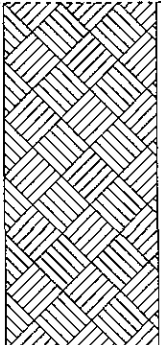

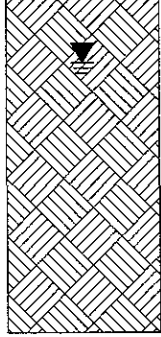
Project No: **10-102**

Phase **4**

Task **4**

Surface Elev. --- ft,

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		Concrete floor and base rock				0	
5			Clayey SILT Greenish tan; hard; moist; 20% clay, 80% silt; moderate plasticity; very low estimated hydraulic conductivity. No hydrocarbon odor.				5	
10	17 21 24							
10			SILT Tan to brown; hard; moist to wet; <2% clay, 98% silt, 2% fine sand; low plasticity, moderate estimated hydraulic conductivity. No hydrocarbon odor.	<1			10	
15	11 18 24						15	Bottom of boring
20							20	
25							25	
30							30	

Driller Soils Exploration	Drilling Started 5/3/94	Notes: _____
Logged By N. Scott MacLeod	Drilling Completed 5/3/94	_____
Water-Bearing Zones N/A	Grout Type Portland cement	_____

BOR 10102 7/6/94

BORING LOG

Boring ID **SB-D**

Client: **Albany Ford and Subaru**

Location **718 San Pablo Avenue, Albany**

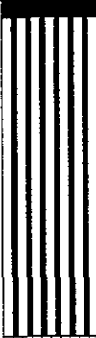
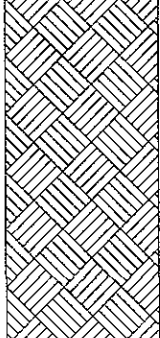

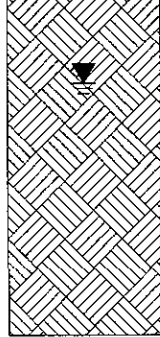
Project No: **10-102**

Phase **4**

Task **4**

Surface Elev. --- ft,

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		Concrete floor and base rock				0	
5	15 22 28	◆	Clayey SILT Brownish green; hard; moist; 25% clay, 75% silt, < 5% fine; sand; medium to high plasticity; very low estimated hydraulic conductivity. No hydrocarbon odor.				5	
10	12 11 26	◆	Sandy SILT Tan mottled brown; hard; wet; 70% silt, 30% fine sand, 10% gravel; no to low plasticity, moderate to high estimated hydraulic conductivity. Slight heavy hydrocarbon odor.	< 1			10	
15							15	Bottom of boring
20							20	
25							25	
30							30	

Driller Soils Exploration	Drilling Started 5/4/94	Notes: _____
Logged By N. Scott MacLeod	Drilling Completed 5/4/94	_____
Water-Bearing Zones N/A	Grout Type Portland cement	_____

BOR 10102 7/6/94

BORING LOG

Boring ID **SB-E**

Client: **Albany Ford and Subaru**

Location **718 San Pablo Avenue, Albany**

Project No: **10-102**

Phase **4**

Task **4**

Surface Elev. --- ft,

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0			Concrete floor and base rock				0	
			Sandy SILT Brown; moist; 75% silt, 20% fine sand, 5% gravel; medium plasticity; very low to low estimated hydraulic conductivity. No hydrocarbon odor.					
5	Hand driven	✕		< 1			5	
10	Hand driven	✕		< 1			10	
15							15	Bottom of boring
20							20	
25							25	
30							30	

Driller Soils Exploration	Drilling Started 5/4/94	Notes: _____
Logged By N. Scott MacLeod	Drilling Completed 5/4/94	_____
Water-Bearing Zones N/A	Grout Type Portland cement	_____

BOR 10102 7/6/94

DRILLING LOG

Boring ID **SB-F** Well ID **MW-3**
 Location **718 San Pablo Avenue, Albany**
 Surface Elev. --- ft, Page 1 of 1

Client: **Albany Ford and Subaru**
 Project No: **10-102** Phase **4** Task **4**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth Feet	Well Construction Details
0	Ground Surface		Concrete floor and base rock				0	T.O.C. Elev. 98.46
0-5			SILT Brown; moist; 5% clay, 90% silt, 5% fine sand, <5% gravel; no to low plasticity; moderate estimated hydraulic conductivity. No hydrocarbon odor.	<1			5	Locking well-plug beneath traffic-rated vault
5-10	Hand driven	X					10	
10-15	Hand driven	X		<1			15	
15-20	Hand driven	X	Clayey SILT Brown; wet; 30% clay, 70% silt; medium to high plasticity; low estimated hydraulic conductivity. No hydrocarbon odor.				20	
20-25	Hand driven	X	Gravelly to Sandy SILT Brown; wet; 5% clay, 60% silt, 20% sand, 15% gravel; no plasticity; moderate estimated hydraulic conductivity. No hydrocarbon odor.				25	Well bottom
25-30							30	

Driller Soils Exploration	Development Yield N/A	Bentonite Seal 3.5 to 4.5 ft
Logged By N. Scott MacLeod	Well Casing 2 Dia. 0 to 5	Sand Pack Monterey sand
Drilling Started 5/4/94	Casing Type Schedule 40 PVC	Sand Pack Type #2/16
Drilling Completed 5/4/94	Well Screen 2 Dia. 5 to 20	Static Water Level 9.50 ft Depth
Construction Completed 5/4/94	Screen Type Schedule 40 PVC	Date 5/4/94
Development Completed 5/27/94	Slot Size 0.010-inch	Notes: _____
Water Bearing Zones N/A	Drilling Mud N/A	_____
	Grout Type Portland cement	_____

BORING LOG

Boring ID **SB-G**

Client: **Albany Ford and Subaru**

Location **718 San Pablo Avenue, Albany**


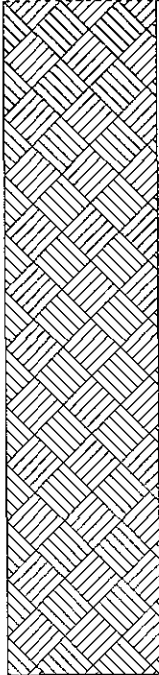
Project No: **10-102**

Phase **4**

Task **4**

Surface Elev. --- ft,

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		Concrete floor and base rock				0	
5	Hand driven		Silty to Sandy GRAVEL Brownish grey; damp; 5% clay, 20% silt, 25% sand, 50% gravel; no plasticity; moderate to high estimated hydraulic conductivity. No hydrocarbon odor.	2			5	
10	Hand driven		Hydrocarbon sheen on soil samples when wet. 40% silt, 20% sand, 40% gravel at 10 ft depth.	88			10	
15							15	Bottom of boring
20							20	
25							25	
30							30	

Driller Soils Exploration	Drilling Started 5/4/94	Notes: _____ _____ _____
Logged By N. Scott MacLeod	Drilling Completed 5/4/94	
Water-Bearing Zones N/A	Grout Type Portland cement	

BOR 10102 7/6/94

BORING LOG

Boring ID **SB-H**

Client: **Albany Ford and Subaru**

Location **718 San Pablo Avenue, Albany**

Project No: **10-102**

Phase **4**

Task **4**

Surface Elev. --- ft.

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		Concrete floor and base rock				0	
			SILT Brown; moist; <5% clay, 95% silt, <5% sand; no plasticity; moderate estimated hydraulic conductivity. No hydrocarbon odor.					
5	Not recorded						5	
			Sandy SILT Brown; wet; 80% silt, 20% fine sand; no to low plasticity, moderate estimated hydraulic conductivity. No hydrocarbon odor.					
10	Not recorded						10	
				<1				
15							15	Bottom of boring
20							20	
25							25	
30							30	

Driller **Soils Exploration**

Drilling Started **5/4/94**

Notes: _____

Logged By **N. Scott MacLeod**

Drilling Completed **5/4/94**

Water-Bearing Zones **N/A**

Grout Type **Portland cement**

DRILLING LOG

Client: **Albany Ford and Subaru**

Project No: **10-102**

Phase **4**

Task **4**

Boring ID **SB-1**

Well ID

MW-1

Location **718 San Pablo Avenue, Albany**

Surface Elev. --- ft,

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth Feet	Well Construction Details
0			Asphalt driveway and base rock				0	T.O.C. Elev. 99.12
0			Gravelly Clayey SILT Dark brown; hard; damp; 20% clay, 50% silt, 10% fine sand, 20% gravel; medium to high plasticity; low estimated hydraulic conductivity. No hydrocarbon odor.				0	Locking well-plug beneath traffic-rated vault
5	7 12 22						5	
10	8 17 22						10	
15	6 9 16		Sandy SILT Rust brown; very stiff; moist to wet; 10% clay, 65% silt, 20% sand, 5% gravel; low to medium plasticity; low estimated hydraulic conductivity. No hydrocarbon odor.				15	
20			SILT Brown with grey mottling; wet; 5% clay, 85% silt, 10% sand; low to medium plasticity; low to moderate estimated hydraulic conductivity. No hydrocarbon odor.				20	Well bottom
25							25	
30							30	

Driller Soils Exploration	Development Yield N/A	Bentonite Seal 3.5 to 4.5 ft
Logged By N. Scott MacLeod	Well Casing 2 Dia. 0 to 5	Sand Pack Monterey sand
Drilling Started 5/6/94	Casing Type Schedule 40 PVC	Sand Pack Type #2/16
Drilling Completed 5/6/94	Well Screen 2 Dia. 5 to 20	Static Water Level 9.50 ft Depth
Construction Completed 5/6/94	Screen Type Schedule 40 PVC	Date 5/6/94
Development Completed 5/27/94	Slot Size 0.010-inch	Notes: _____
Water Bearing Zones N/A	Drilling Mud N/A	_____
	Grout Type Portland cement	_____

WELL 10102 7/12/94

APPENDIX B

Laboratory Analytic Reports



NATIONAL
ENVIRONMENTAL
TESTING, INC.

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

Scott Macleod
Cambria Env. Technology
1144 65th Street
Suite C
Oakland, CA 94608


Date: 06/27/1994
NET Client Acct. No: 98900
NET Pacific Job No: 94.02460
Received: 06/11/1994


Client Reference Information

Val Strough/Albany

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. 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:


Judy Ridley
Project Coordinator


Jim Hoch
Operations Manager

Enclosure(s)





KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : 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. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
- dw : Result expressed as dry weight.
- 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 the 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., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.



Client Acct: 98900
Client Name: Cambria Env. Technology
NET Job No: 94.02460

Date: 06/27/1994
ELAP Certificate: 1386
Page: 2

Ref: Val Strough/Albany

SAMPLE DESCRIPTION: MW-1 (voas)
Date Taken: 06/09/1994
Time Taken: 14:30
NET Sample No: 196826

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						06/20/1994
DILUTION FACTOR*	1						06/16/1994
as Gasoline	0.08		0.05	mg/L	5030		06/16/1994
METHOD 8020 (GC,Liquid)	--						06/16/1994
Benzene	ND		0.5	ug/L	8020		06/16/1994
Toluene	53	FC	0.5	ug/L	8020		06/20/1994
Ethylbenzene	ND		0.5	ug/L	8020		06/16/1994
Xylenes (Total)	1.2		0.5	ug/L	8020		06/16/1994
SURROGATE RESULTS	--						06/16/1994
Bromofluorobenzene (SURR)	97			% Rec.	5030		06/16/1994

FC : Compound quantitated at a 10X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria Env. Technology
NET Job No: 94.02460

Date: 06/27/1994
ELAP Certificate: 1386
Page: 3

Ref: Val Strough/Albany

SAMPLE DESCRIPTION: MW-1 (voas)
Date Taken: 06/09/1994
Time Taken: 14:30
NET Sample No: 196826

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						06/21/1994
Bromodichloromethane	ND		0.4	ug/L	8010		06/21/1994
Bromoform	ND		0.4	ug/L	8010		06/21/1994
Bromomethane	ND		0.4	ug/L	8010		06/21/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		06/21/1994
Chlorobenzene	ND		0.4	ug/L	8010		06/21/1994
Chloroethane	ND		0.4	ug/L	8010		06/21/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		06/21/1994
Chloroform	ND		0.4	ug/L	8010		06/21/1994
Chloromethane	ND		0.4	ug/L	8010		06/21/1994
Dibromochloromethane	ND		0.4	ug/L	8010		06/21/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		06/21/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		06/21/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		06/21/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		06/21/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		06/21/1994
1,2-Dichloroethane	0.7		0.4	ug/L	8010		06/21/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		06/21/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		06/21/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		06/21/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		06/21/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		06/21/1994
Methylene chloride	ND		1.0	ug/L	8010		06/21/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		06/21/1994
Tetrachloroethene	ND		0.4	ug/L	8010		06/21/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		06/21/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		06/21/1994
Trichloroethene	ND		0.4	ug/L	8010		06/21/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		06/21/1994
Vinyl chloride	ND		0.4	ug/L	8010		06/21/1994
SURROGATE RESULTS	--						06/21/1994
1,4-Difluorobenzene (SURR)	96			% Rec.			06/21/1994
1,4-Dichlorobutane (SURR)	70			% Rec.			06/21/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria Env. Technology
NET Job No: 94.02460

Date: 06/27/1994
ELAP Certificate: 1386
Page: 4

Ref: Val Strough/Albany

SAMPLE DESCRIPTION: MW-2 (voas,8270)
Date Taken: 06/08/1994
Time Taken: 15:48
NET Sample No: 196827

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						06/16/1994
DILUTION FACTOR*	1						06/16/1994
as Gasoline	ND		0.05	mg/L	5030		06/16/1994
METHOD 8020 (GC,Liquid)	--						06/16/1994
Benzene	ND		0.5	ug/L	8020		06/16/1994
Toluene	ND		0.5	ug/L	8020		06/16/1994
Ethylbenzene	ND		0.5	ug/L	8020		06/16/1994
Xylenes (Total)	ND		0.5	ug/L	8020		06/16/1994
SURROGATE RESULTS	--						06/16/1994
Bromofluorobenzene (SURR)	95			% Rec.	5030		06/16/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria Env. Technology
NET Job No: 94.02460

Date: 06/27/1994
ELAP Certificate: 1386
Page: 5

Ref: Val Strough/Albany

SAMPLE DESCRIPTION: MW-2 (voas,8270)
Date Taken: 06/08/1994
Time Taken: 15:48
NET Sample No: 196827

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						06/21/1994
Bromodichloromethane	ND		0.4	ug/L	8010		06/21/1994
Bromoform	ND		0.4	ug/L	8010		06/21/1994
Bromomethane	ND		0.4	ug/L	8010		06/21/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		06/21/1994
Chlorobenzene	ND		0.4	ug/L	8010		06/21/1994
Chloroethane	ND		0.4	ug/L	8010		06/21/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		06/21/1994
Chloroform	ND		0.4	ug/L	8010		06/21/1994
Chloromethane	ND		0.4	ug/L	8010		06/21/1994
Dibromochloromethane	ND		0.4	ug/L	8010		06/21/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		06/21/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		06/21/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		06/21/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		06/21/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		06/21/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		06/21/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		06/21/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		06/21/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		06/21/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		06/21/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		06/21/1994
Methylene chloride	ND		10	ug/L	8010		06/21/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		06/21/1994
Tetrachloroethene	ND		0.4	ug/L	8010		06/21/1994
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		06/21/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		06/21/1994
Trichloroethene	ND		0.4	ug/L	8010		06/21/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		06/21/1994
Vinyl chloride	ND		0.4	ug/L	8010		06/21/1994
SURROGATE RESULTS	--						06/21/1994
1,4-Difluorobenzene (SURR)	100			% Rec.			06/21/1994
1,4-Dichlorobutane (SURR)	79			% Rec.			06/21/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria Env. Technology
NET Job No: 94.02460

Date: 06/27/1994
ELAP Certificate: 1386
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Ref: Val Strough/Albany

SAMPLE DESCRIPTION: MW-2 (voas,8270)
Date Taken: 06/08/1994
Time Taken: 15:48
NET Sample No: 196827

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
METHOD 8270 (GCMS, Liquid)						06/14/1994	
DILUTION FACTOR*	1						06/16/1994
Acenaphthene	ND		10	ug/L	8270		06/16/1994
Acenaphthylene	ND		10	ug/L	8270		06/16/1994
Aldrin	ND		50	ug/L	8270		06/16/1994
Anthracene	ND		10	ug/L	8270		06/16/1994
Benzidine	ND		44	ug/L	8270		06/16/1994
Benzo(a)anthracene	ND		10	ug/L	8270		06/16/1994
Benzo(b)fluoranthene	ND		10	ug/L	8270		06/16/1994
Benzo(k)fluoranthene	ND		10	ug/L	8270		06/16/1994
Benzo(a)pyrene	ND		10	ug/L	8270		06/16/1994
Benzo(g,h,i)perylene	ND		10	ug/L	8270		06/16/1994
Benzoic acid	ND		50	ug/L	8270		06/16/1994
Benzyl alcohol	ND		10	ug/L	8270		06/16/1994
Butyl benzyl phthalate	ND		10	ug/L	8270		06/16/1994
delta-BHC	ND		50	ug/L	8270		06/16/1994
gamma-BHC	ND		50	ug/L	8270		06/16/1994
bis(2-Chloroethyl)ether	ND		10	ug/L	8270		06/16/1994
bis(2-Chloroethoxy)methane	ND		10	ug/L	8270		06/16/1994
bis(2-Chloroisopropyl)ether	ND		10	ug/L	8270		06/16/1994
bis(2-Ethylhexyl)phthalate	ND		10	ug/L	8270		06/16/1994
4-Bromophenyl phenyl ether	ND		10	ug/L	8270		06/16/1994
4-Chloroaniline	ND		10	ug/L	8270		06/16/1994
2-Chloronaphthalene	ND		10	ug/L	8270		06/16/1994
4-Chlorophenyl phenyl ether	ND		10	ug/L	8270		06/16/1994
Chrysene	ND		10	ug/L	8270		06/16/1994
4,4'-DDD	ND		50	ug/L	8270		06/16/1994
4,4'-DDE	ND		50	ug/L	8270		06/16/1994
4,4'-DDT	ND		50	ug/L	8270		06/16/1994
Dibenzo(a,h)anthracene	ND		10	ug/L	8270		06/16/1994
Dibenzofuran	ND		10	ug/L	8270		06/16/1994
Di-n-butylphthalate	ND		10	ug/L	8270		06/16/1994
1,2-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
1,3-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
1,4-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
3,3'-Dichlorobenzidine	ND		20	ug/L	8270		06/16/1994
Dieldrin	ND		50	ug/L	8270		06/16/1994
Diethylphthalate	ND		10	ug/L	8270		06/16/1994
Dimethyl phthalate	ND		10	ug/L	8270		06/16/1994
2,4-Dinitrotoluene	ND		10	ug/L	8270		06/16/1994
2,6-Dinitrotoluene	ND		10	ug/L	8270		06/16/1994
Di-n-octyl phthalate	ND		10	ug/L	8270		06/16/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria Env. Technology
NET Job No: 94.02460

Date: 06/27/1994
ELAP Certificate: 1386
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Ref: Val Strough/Albany

SAMPLE DESCRIPTION: MW-2 (voas,8270)
Date Taken: 06/08/1994
Time Taken: 15:48
NET Sample No: 196827

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
Endrin aldehyde	ND		50	ug/L	8270		06/16/1994
Fluoranthene	ND		10	ug/L	8270		06/16/1994
Fluorene	ND		10	ug/L	8270		06/16/1994
Heptachlor	ND		50	ug/L	8270		06/16/1994
Heptachlor epoxide	ND		50	ug/L	8270		06/16/1994
Hexachlorobenzene	ND		10	ug/L	8270		06/16/1994
Hexachlorobutadiene	ND		10	ug/L	8270		06/16/1994
Hexachlorocyclopentadiene	ND		10	ug/L	8270		06/16/1994
Hexachloroethane	ND		10	ug/L	8270		06/16/1994
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	8270		06/16/1994
Isophorone	ND		10	ug/L	8270		06/16/1994
2-Methylnaphthalene	ND		10	ug/L	8270		06/16/1994
Naphthalene	ND		10	ug/L	8270		06/16/1994
2-Nitroaniline	ND		50	ug/L	8270		06/16/1994
3-Nitroaniline	ND		50	ug/L	8270		06/16/1994
4-Nitroaniline	ND		50	ug/L	8270		06/16/1994
Nitrobenzene	ND		10	ug/L	8270		06/16/1994
N-Nitroso-Di-N-propylamine	ND		10	ug/L	8270		06/16/1994
N-Nitrosodiphenylamine	ND		10	ug/L	8270		06/16/1994
Phenanthrene	ND		10	ug/L	8270		06/16/1994
Pyrene	ND		10	ug/L	8270		06/16/1994
1,2,4-Trichlorobenzene	ND		10	ug/L	8270		06/16/1994
ACID EXTRACTABLES	--						06/16/1994
4-Chloro-3-methylphenol	ND		10	ug/L	8270		06/16/1994
2-Chlorophenol	ND		10	ug/L	8270		06/16/1994
2,4-Dichlorophenol	ND		10	ug/L	8270		06/16/1994
2,4-Dimethylphenol	ND		10	ug/L	8270		06/16/1994
2,4-Dinitrophenol	ND		50	ug/L	8270		06/16/1994
4,6-Dinitro-2-methylphenol	ND		50	ug/L	8270		06/16/1994
2-Nitrophenol	ND		10	ug/L	8270		06/16/1994
4-Nitrophenol	ND		50	ug/L	8270		06/16/1994
Pentachlorophenol	ND		50	ug/L	8270		06/16/1994
Phenol	ND		10	ug/L	8270		06/16/1994
2,4,6-Trichlorophenol	ND		10	ug/L	8270		06/16/1994
2-Methylphenol	ND		10	ug/L	8270		06/16/1994
4-Methylphenol	ND		10	ug/L	8270		06/16/1994
2,4,5-Trichlorophenol	ND		50	ug/L	8270		06/16/1994
SURROGATE RESULTS	--						06/16/1994
Nitrobenzene-d5 (SURR)	85			% Rec.	8270		06/16/1994
2-Fluorobiphenyl (SURR)	64			% Rec.	8270		06/16/1994
p-Terphenyl-d14 (SURR)	65			% Rec.	8270		06/16/1994
Phenol-d5 (SURR)	47			% Rec.	8270		06/16/1994

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SAMPLE DESCRIPTION: MW-2 (voas, 8270)
Date Taken: 06/08/1994
Time Taken: 15:48
NET Sample No: 196827

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
2-Fluorophenol (SURR)	61			% Rec.	8270		06/16/1994
2,4,6-Tribromophenol (SURR)	88			% Rec.	8270		06/16/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: MW-3 (voas)
Date Taken: 06/09/1994
Time Taken: 12:20
NET Sample No: 196828

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						06/16/1994
DILUTION FACTOR*	1						06/16/1994
as Gasoline	ND		0.05	mg/L	5030		06/16/1994
METHOD 8020 (GC,Liquid)	--						06/16/1994
Benzene	ND		0.5	ug/L	8020		06/16/1994
Toluene	ND		0.5	ug/L	8020		06/16/1994
Ethylbenzene	ND		0.5	ug/L	8020		06/16/1994
Xylenes (Total)	ND		0.5	ug/L	8020		06/16/1994
SURROGATE RESULTS	--						06/16/1994
Bromofluorobenzene (SURR)	94			% Rec.	5030		06/16/1994

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SAMPLE DESCRIPTION: MW-3 (voas)
 Date Taken: 06/09/1994
 Time Taken: 12:20
 NET Sample No: 196828

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8010 (GC,Liquid)							
DILUTION FACTOR*	1						06/22/1994
Bromodichloromethane	ND		0.4	ug/L	8010		06/22/1994
Bromoform	ND		0.4	ug/L	8010		06/22/1994
Bromomethane	ND		0.4	ug/L	8010		06/22/1994
Carbon tetrachloride	ND		0.4	ug/L	8010		06/22/1994
Chlorobenzene	ND		0.4	ug/L	8010		06/22/1994
Chloroethane	ND		0.4	ug/L	8010		06/22/1994
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		06/22/1994
Chloroform	ND		0.4	ug/L	8010		06/22/1994
Chloromethane	ND		0.4	ug/L	8010		06/22/1994
Dibromochloromethane	ND		0.4	ug/L	8010		06/22/1994
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		06/22/1994
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		06/22/1994
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		06/22/1994
Dichlorodifluoromethane	ND		0.4	ug/L	8010		06/22/1994
1,1-Dichloroethane	ND		0.4	ug/L	8010		06/22/1994
1,2-Dichloroethane	ND		0.4	ug/L	8010		06/22/1994
1,1-Dichloroethene	ND		0.4	ug/L	8010		06/22/1994
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		06/22/1994
1,2-Dichloropropane	ND		0.4	ug/L	8010		06/22/1994
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		06/22/1994
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		06/22/1994
Methylene chloride	ND		10	ug/L	8010		06/22/1994
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		06/22/1994
Tetrachloroethene	ND		0.4	ug/L	8010		06/22/1994
1,1,1-Trichloroethane	1.1		0.4	ug/L	8010		06/22/1994
1,1,2-Trichloroethane	ND		1	ug/L	8010		06/22/1994
Trichloroethene	ND		0.4	ug/L	8010		06/22/1994
Trichlorofluoromethane	ND		0.4	ug/L	8010		06/22/1994
Vinyl chloride	ND		0.4	ug/L	8010		06/22/1994
SURROGATE RESULTS							
1,4-Difluorobenzene (SURR)	109				% Rec.		06/22/1994
Bromochloromethane (SURR)	99				% Rec.		06/22/1994

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SAMPLE DESCRIPTION: MW-1 (8270)
Date Taken: 06/09/1994
Time Taken: 14:35
NET Sample No: 196829

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8270 (GCMS, Liquid)						06/14/1994	
DILUTION FACTOR*	1						06/16/1994
Acenaphthene	ND		10	ug/L	8270		06/16/1994
Acenaphthylene	ND		10	ug/L	8270		06/16/1994
Aldrin	ND		50	ug/L	8270		06/16/1994
Anthracene	ND		10	ug/L	8270		06/16/1994
Benzidine	ND		44	ug/L	8270		06/16/1994
Benzo(a)anthracene	ND		10	ug/L	8270		06/16/1994
Benzo(b)fluoranthene	ND		10	ug/L	8270		06/16/1994
Benzo(k)fluoranthene	ND		10	ug/L	8270		06/16/1994
Benzo(a)pyrene	ND		10	ug/L	8270		06/16/1994
Benzo(g,h,i)perylene	ND		10	ug/L	8270		06/16/1994
Benzoic acid	ND		50	ug/L	8270		06/16/1994
Benzyl alcohol	ND		10	ug/L	8270		06/16/1994
Butyl benzyl phthalate	ND		10	ug/L	8270		06/16/1994
delta-BHC	ND		50	ug/L	8270		06/16/1994
gamma-BHC	ND		50	ug/L	8270		06/16/1994
bis(2-Chloroethyl) ether	ND		10	ug/L	8270		06/16/1994
bis(2-Chloroethoxy)methane	ND		10	ug/L	8270		06/16/1994
bis(2-Chloroisopropyl) ether	ND		10	ug/L	8270		06/16/1994
bis(2-Ethylhexyl) phthalate	ND		10	ug/L	8270		06/16/1994
4-Bromophenyl phenyl ether	ND		10	ug/L	8270		06/16/1994
4-Chloroaniline	ND		10	ug/L	8270		06/16/1994
2-Chloronaphthalene	ND		10	ug/L	8270		06/16/1994
4-Chlorophenyl phenyl ether	ND		10	ug/L	8270		06/16/1994
Chrysene	ND		10	ug/L	8270		06/16/1994
4,4'-DDD	ND		50	ug/L	8270		06/16/1994
4,4'-DDE	ND		50	ug/L	8270		06/16/1994
4,4'-DDT	ND		50	ug/L	8270		06/16/1994
Dibenzo(a,h)anthracene	ND		10	ug/L	8270		06/16/1994
Dibenzofuran	ND		10	ug/L	8270		06/16/1994
Di-n-butylphthalate	ND		10	ug/L	8270		06/16/1994
1,2-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
1,3-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
1,4-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
3,3'-Dichlorobenzidine	ND		20	ug/L	8270		06/16/1994
Dieldrin	ND		50	ug/L	8270		06/16/1994
Diethylphthalate	ND		10	ug/L	8270		06/16/1994
Dimethyl phthalate	ND		10	ug/L	8270		06/16/1994
2,4-Dinitrotoluene	ND		10	ug/L	8270		06/16/1994
2,6-Dinitrotoluene	ND		10	ug/L	8270		06/16/1994
Di-n-octyl phthalate	ND		10	ug/L	8270		06/16/1994

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SAMPLE DESCRIPTION: MW-1 (8270)

Date Taken: 06/09/1994

Time Taken: 14:35

NET Sample No: 196829

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Endrin aldehyde	ND		50	ug/L	8270		06/16/1994
Fluoranthene	ND		10	ug/L	8270		06/16/1994
Fluorene	ND		10	ug/L	8270		06/16/1994
Heptachlor	ND		50	ug/L	8270		06/16/1994
Heptachlor epoxide	ND		50	ug/L	8270		06/16/1994
Hexachlorobenzene	ND		10	ug/L	8270		06/16/1994
Hexachlorobutadiene	ND		10	ug/L	8270		06/16/1994
Hexachlorocyclopentadiene	ND		10	ug/L	8270		06/16/1994
Hexachloroethane	ND		10	ug/L	8270		06/16/1994
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	8270		06/16/1994
Isophorone	ND		10	ug/L	8270		06/16/1994
2-Methylnaphthalene	ND		10	ug/L	8270		06/16/1994
Naphthalene	ND		10	ug/L	8270		06/16/1994
2-Nitroaniline	ND		50	ug/L	8270		06/16/1994
3-Nitroaniline	ND		50	ug/L	8270		06/16/1994
4-Nitroaniline	ND		50	ug/L	8270		06/16/1994
Nitrobenzene	ND		10	ug/L	8270		06/16/1994
N-Nitroso-Di-N-propylamine	ND		10	ug/L	8270		06/16/1994
N-Nitrosodiphenylamine	ND		10	ug/L	8270		06/16/1994
Phenanthrene	ND		10	ug/L	8270		06/16/1994
Pyrene	ND		10	ug/L	8270		06/16/1994
1,2,4-Trichlorobenzene	ND		10	ug/L	8270		06/16/1994
ACID EXTRACTABLES	--						06/16/1994
4-Chloro-3-methylphenol	ND		10	ug/L	8270		06/16/1994
2-Chlorophenol	ND		10	ug/L	8270		06/16/1994
2,4-Dichlorophenol	ND		10	ug/L	8270		06/16/1994
2,4-Dimethylphenol	ND		10	ug/L	8270		06/16/1994
2,4-Dinitrophenol	ND		50	ug/L	8270		06/16/1994
4,6-Dinitro-2-methylphenol	ND		50	ug/L	8270		06/16/1994
2-Nitrophenol	ND		10	ug/L	8270		06/16/1994
4-Nitrophenol	ND		50	ug/L	8270		06/16/1994
Pentachlorophenol	ND		50	ug/L	8270		06/16/1994
Phenol	ND		10	ug/L	8270		06/16/1994
2,4,6-Trichlorophenol	ND		10	ug/L	8270		06/16/1994
2-Methylphenol	ND		10	ug/L	8270		06/16/1994
4-Methylphenol	ND		10	ug/L	8270		06/16/1994
2,4,5-Trichlorophenol	ND		50	ug/L	8270		06/16/1994
SURROGATE RESULTS	--						06/16/1994
Nitrobenzene-d5 (SURR)	80			% Rec.	8270		06/16/1994
2-Fluorobiphenyl (SURR)	64			% Rec.	8270		06/16/1994
p-Terphenyl-d14 (SURR)	64			% Rec.	8270		06/16/1994
Phenol-d5 (SURR)	43			% Rec.	8270		06/16/1994

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SAMPLE DESCRIPTION: MW-1 (8270)
Date Taken: 06/09/1994
Time Taken: 14:35
NET Sample No: 196829

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
2-Fluorophenol (SURR)	61			% Rec.	8270		06/16/1994
2,4,6-Tribromophenol (SURR)	98			% Rec.	8270		06/16/1994

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SAMPLE DESCRIPTION: MW-1 (D/MO)
 Date Taken: 06/09/1994
 Time Taken: 14:55
 NET Sample No: 196831

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD M8015 (EXT., Liquid)						06/15/1994	
DILUTION FACTOR*	1						06/16/1994
as Diesel	0.09	D-	0.05	mg/L	3510		06/16/1994
as Motor Oil	ND		0.5	mg/L	3510		06/16/1994

D- : The positive result has an atypical pattern for Diesel analysis.

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SAMPLE DESCRIPTION: MW-3 (8270/metals)
Date Taken: 06/09/1994
Time Taken: 12:30
NET Sample No: 196833

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8270 (GCMS, Liquid)						06/14/1994	
DILUTION FACTOR*	1						06/16/1994
Acenaphthene	ND		10	ug/L	8270		06/16/1994
Acenaphthylene	ND		10	ug/L	8270		06/16/1994
Aldrin	ND		50	ug/L	8270		06/16/1994
Anthracene	ND		10	ug/L	8270		06/16/1994
Benzidine	ND		44	ug/L	8270		06/16/1994
Benzo(a)anthracene	ND		10	ug/L	8270		06/16/1994
Benzo(b)fluoranthene	ND		10	ug/L	8270		06/16/1994
Benzo(k)fluoranthene	ND		10	ug/L	8270		06/16/1994
Benzo(a)pyrene	ND		10	ug/L	8270		06/16/1994
Benzo(g,h,i)perylene	ND		10	ug/L	8270		06/16/1994
Benzoic acid	ND		50	ug/L	8270		06/16/1994
Benzyl alcohol	ND		10	ug/L	8270		06/16/1994
Butyl benzyl phthalate	ND		10	ug/L	8270		06/16/1994
delta-BHC	ND		50	ug/L	8270		06/16/1994
gamma-BHC	ND		50	ug/L	8270		06/16/1994
bis(2-Chloroethyl)ether	ND		10	ug/L	8270		06/16/1994
bis(2-Chloroethoxy)methane	ND		10	ug/L	8270		06/16/1994
bis(2-Chloroisopropyl)ether	ND		10	ug/L	8270		06/16/1994
bis(2-Ethylhexyl)phthalate	ND		10	ug/L	8270		06/16/1994
4-Bromophenyl phenyl ether	ND		10	ug/L	8270		06/16/1994
4-Chloroaniline	ND		10	ug/L	8270		06/16/1994
2-Chloronaphthalene	ND		10	ug/L	8270		06/16/1994
4-Chlorophenyl phenyl ether	ND		10	ug/L	8270		06/16/1994
Chrysene	ND		10	ug/L	8270		06/16/1994
4,4'-DDD	ND		50	ug/L	8270		06/16/1994
4,4'-DDE	ND		50	ug/L	8270		06/16/1994
4,4'-DDT	ND		50	ug/L	8270		06/16/1994
Dibenzo(a,h)anthracene	ND		10	ug/L	8270		06/16/1994
Dibenzofuran	ND		10	ug/L	8270		06/16/1994
Di-n-butylphthalate	ND		10	ug/L	8270		06/16/1994
1,2-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
1,3-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
1,4-Dichlorobenzene	ND		10	ug/L	8270		06/16/1994
3,3'-Dichlorobenzidine	ND		20	ug/L	8270		06/16/1994
Dieldrin	ND		50	ug/L	8270		06/16/1994
Diethylphthalate	ND		10	ug/L	8270		06/16/1994
Dimethyl phthalate	ND		10	ug/L	8270		06/16/1994
2,4-Dinitrotoluene	ND		10	ug/L	8270		06/16/1994
2,6-Dinitrotoluene	ND		10	ug/L	8270		06/16/1994
Di-n-octyl phthalate	ND		10	ug/L	8270		06/16/1994

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SAMPLE DESCRIPTION: MW-3 (8270/metals)
Date Taken: 06/09/1994
Time Taken: 12:30
NET Sample No: 196833

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
2-Fluorophenol (SURR)	54			% Rec.	8270		06/16/1994
2,4,6-Tribromophenol (SURR)	81			% Rec.	8270		06/16/1994

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SAMPLE DESCRIPTION: MW-3 (D/MO)
 Date Taken: 06/09/1994
 Time Taken: 12:45
 NET Sample No: 196834

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD M8015 (EXT., Liquid)						06/15/1994	
DILUTION FACTOR*	1						06/16/1994
as Diesel	ND		0.05	mg/L	3510		06/16/1994
as Motor Oil	ND		0.5	mg/L	3510		06/16/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

1144 65th Street, Suite C, Oakland, CA 94608
 (510) 420-0700 Fax: (510) 420-9170

*Client notified of analysis per S in to yr
 go ahead of analysis per S in to yr
 6/13/94*

9789 CHAIN OF CUSTODY

Page 1 of 2

Cambria Manager: _____					ANALYSES										LAB: <u>NET</u>								
Cambria Sampler: <u>MU GOODMAN</u>					VOL'S	TPTG/10:TEC	BOL'S/8020	SOL'S	BOL'S	METALS	LIFT	TPTG/STAIN	BOL'S EXT.										COMMENTS
Client: <u>VAL STROUGH / ANUBAN Y</u>																							
Site Address: <u>713 SAN PABLO</u>																							
SAMPLE ID	DATE	TIME	MATRIX	# OF SAMPLES																			
MW-1	6/9/94	2:20	WATER	2 VOA	X																		} water all have headspace bubbles
MW-1	6/9/94	2:30	WATER	3 VOA		X																	
MW-1	6/9/94	2:35	WATER	2 LIL			X																NO PRESERVATIVE
MW-1	6/9/94	2:40	WATER	PINBALL				X															
MW-1	6/9/94	2:55	WATER	2 LIL						X													NO PRESERVATIVE
MW-2	6/8/94	3:48	WATER	2 LVOA	X																		} all voads have headspace bubbles
MW-2	6/8/94	3:48	WATER	3 LVOA		X																	
MW-2	6/8/94	3:48	WATER	2 LIL				X															NO PRESERVATIVE
MW-2	6/8/94	3:49	WATER	PINBALL						X													NO PRESERVATIVE
MW-3	6/9/94	12:20	WATER	2 LVOA	X																		} 3 of 5 voads have headspace bubbles
MW-3	6/8/94	12:20	WATER	3 LVOA		X																	

CUSTODY SEVERED
 6/10/94
[Signature]

Relinquished by: <i>[Signature]</i>	Relinquished by: <i>[Signature]</i>	Relinquished by: <u>(VIANNIS)</u>	Relinquished by: _____
Received by: <i>[Signature]</i>	Received by: _____	Received by: <i>[Signature]</i>	Received by: _____
Time/Date: <u>6/10/94 11:00</u>	Time/Date: <u>6/10/94 11:30</u>	Time/Date: <u>6/11/94 11:00</u>	Time/Date: _____

Temp Record: 2.7°C

CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

1144 65th Street, Suite C, Oakland, CA 94608
 (510) 420-0700 Fax: (510) 420-9170

9789

CHAIN OF CUSTODY

Page 2 of 2

Cambria Manager: _____					ANALYSES								LAB: <u>NIET</u>			
Cambria Sampler: <u>M. GORMAN</u>					SOL'S	METAL	LUEFT	TPH ₀ /TPH ₁₀								COMMENTS
Client: <u>VAL SPOONER HARBOR</u>																
Site Address: <u>718 SAN PABLO</u>																
SAMPLE ID	DATE	TIME	MATRIX	# OF SAMPLES												
MW-3	6/9/94	12:30	WATER	2 - 1L	X											NO PRESERVATIVE
MW-3	6/9/94	12:30	WATER	PLASTIC		X										
MW-3	6/9/94	12:45	WATER	2 - 1L			X									NO PRESERVATIVE
Relinquished by: <u>[Signature]</u>					Relinquished by: <u>[Signature]</u>					Relinquished by: <u>(VIANIS)</u>					Relinquished by: _____	
Received by: <u>[Signature]</u>					Received by: _____					Received by: <u>[Signature]</u>					Received by: _____	
Time/Date: <u>6/10/94 8:00 AM</u>					Time/Date: <u>6/10/94 17:30</u>					Time/Date: <u>6/11/94 11:00</u>					Time/Date: _____	

CUSTODY SEALED
 6/10/94
 [Signature]
 seal intact

6/10/94
 12:30

Temp Read: 2.70c



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Scott Macleod
Cambria
1144 65th Street
Suite C
Oakland, CA 94608

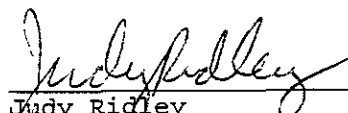
Date: 05/25/1994
NET Client Acct. No: 98900
NET Pacific Job No: 94.01915
Received: 05/06/1994

Client Reference Information

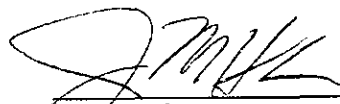
Albany Ford

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. 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:



Judy Ridley
Project Coordinator



Jim Hoch
Operations Manager

Enclosure(s)





Client Acct: 98900
 Client Name: Cambria
 NET Job No: 94.01915

Date: 05/25/1994
 ELAP Certificate: 1386
 Page: 2

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-I 10'
 Date Taken: 05/05/1994
 Time Taken: 09:50
 NET Sample No: 193716

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						05/18/1994
DILUTION FACTOR*	1						05/18/1994
as Gasoline	ND		1	mg/kg	5030		05/18/1994
METHOD 8020 (GC,Solid)	--						05/18/1994
Benzene	ND		2.5	ug/kg	8020		05/18/1994
Toluene	ND		2.5	ug/kg	8020		05/18/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/18/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/18/1994
SURROGATE RESULTS	--						05/18/1994
Bromofluorobenzene (SURR)	76			% Rec.	5030		05/18/1994
METHOD 3550/M8015						05/15/1994	
DILUTION FACTOR*	1						05/16/1994
as Diesel	ND		1	mg/kg	3550		05/16/1994
as Motor Oil	ND		10	mg/kg	3550		05/16/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria
NET Job No: 94.01915

Date: 05/25/1994
ELAP Certificate: 1386
Page: 3

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-H GW
Date Taken: 05/05/1994
Time Taken: 08:50
NET Sample No: 193717

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						05/14/1994
DILUTION FACTOR*	1						05/14/1994
as Gasoline	ND		0.05	mg/L	5030		05/14/1994
METHOD 8020 (GC,Liquid)	--						05/14/1994
Benzene	ND		0.5	ug/L	8020		05/14/1994
Toluene	ND		0.5	ug/L	8020		05/14/1994
Ethylbenzene	ND		0.5	ug/L	8020		05/14/1994
Xylenes (Total)	ND		0.5	ug/L	8020		05/14/1994
SURROGATE RESULTS	--						05/14/1994
Bromofluorobenzene (SURR)	100			% Rec.	5030		05/14/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
 Client Name: Cambria
 NET Job No: 94.01915

Date: 05/25/1994
 ELAP Certificate: 1386
 Page: 4

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-D GW
 Date Taken: 05/05/1994
 Time Taken: 08:45
 NET Sample No: 193718

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTEX, Liquid)							
METHOD 5030/M8015	--						05/14/1994
DILUTION FACTOR*	1						05/14/1994
as Gasoline	0.33		0.05	mg/L	5030		05/14/1994
METHOD 8020 (GC, Liquid)	--						05/14/1994
Benzene	1.5		0.5	ug/L	8020		05/14/1994
Toluene	ND		0.5	ug/L	8020		05/14/1994
Ethylbenzene	2.0		0.5	ug/L	8020		05/14/1994
Xylenes (Total)	2.4		0.5	ug/L	8020		05/14/1994
SURROGATE RESULTS	--						05/14/1994
Bromofluorobenzene (SURR)	109			% Rec.	5030		05/14/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



NATIONAL
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TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
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Scott Macleod
Cambria
1144 65th Street
Suite C
Oakland, CA 94608

Date: 05/18/1994
NET Client Acct. No: 98900
NET Pacific Job No: 94.01852
Received: 05/06/1994

Client Reference Information

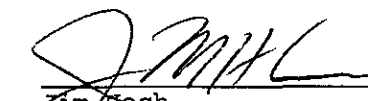
Albany Ford

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Approved by:



Judy Ridley
Project Coordinator



Jim Hoch
Operations Manager

Enclosure(s)





Client Acct: 98900
Client Name: Cambria
NET Job No: 94.01852

Date: 05/18/1994
ELAP Certificate: 1386
Page: 2

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-A 11'
Date Taken: 05/03/1994
Time Taken: 10:55
NET Sample No: 193361

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						05/16/1994
DILUTION FACTOR*	1						05/16/1994
as Gasoline	ND		1	mg/kg	5030		05/16/1994
METHOD 8020 (GC,Solid)	--						05/16/1994
Benzene	ND		2.5	ug/kg	8020		05/16/1994
Toluene	ND		2.5	ug/kg	8020		05/16/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/16/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/16/1994
SURROGATE RESULTS	--						05/16/1994
Bromofluorobenzene (SURR)	102			% Rec.	5030		05/16/1994
METHOD 3550/M8015						05/10/1994	
DILUTION FACTOR*	1						05/10/1994
as Diesel	ND		1	mg/kg	3550		05/10/1994
as Motor Oil	ND		10	mg/kg	3550		05/10/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
 Client Name: Cambria
 NET Job No: 94.01852

Date: 05/18/1994
 ELAP Certificate: 1386
 Page: 3

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-B 11'
 Date Taken: 05/03/1994
 Time Taken: 14:56
 NET Sample No: 193362

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						05/16/1994
DILUTION FACTOR*	1						05/16/1994
as Gasoline	32	GH	1	mg/kg	5030		05/16/1994
METHOD 8020 (GC,Solid)	--						05/16/1994
Benzene	ND		2.5	ug/kg	8020		05/16/1994
Toluene	130	FC	2.5	ug/kg	8020		05/16/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/16/1994
Xylenes (Total)	520	FC	2.5	ug/kg	8020		05/17/1994
SURROGATE RESULTS	--						05/16/1994
Bromofluorobenzene (SURR)	111			% Rec.	5030		05/16/1994
METHOD 3550/M8015						05/10/1994	
DILUTION FACTOR*	100						05/10/1994
as Diesel	3,800	DH	100	mg/kg	3550		05/10/1994
as Motor Oil	5,200		1000	mg/kg	3550		05/10/1994

DH : The positive result appears to be a heavier hydrocarbon than Diesel.
 GH : The positive result appears to be a heavier hydrocarbon than Gasoline.
 FC: Compound quantitated at a 10X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
 Client Name: Cambria
 NET Job No: 94.01852

Date: 05/18/1994
 ELAP Certificate: 1386
 Page: 4

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-C 11'
 Date Taken: 05/03/1994
 Time Taken: 15:59
 NET Sample No: 193363

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						05/16/1994
DILUTION FACTOR*	1						05/16/1994
as Gasoline	ND		1	mg/kg	5030		05/16/1994
METHOD 8020 (GC,Solid)	--						05/16/1994
Benzene	ND		2.5	ug/kg	8020		05/16/1994
Toluene	ND		2.5	ug/kg	8020		05/16/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/16/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/16/1994
SURROGATE RESULTS	--						05/16/1994
Bromofluorobenzene (SURR)	87			% Rec.	5030		05/16/1994
METHOD 3550/M8015						05/15/1994	
DILUTION FACTOR*	1						05/10/1994
as Diesel	ND		1	mg/kg	3550		05/10/1994
as Motor Oil	ND		10	mg/kg	3550		05/10/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria
NET Job No: 94.01852

Date: 05/18/1994
ELAP Certificate: 1386
Page: 5

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-D 11'
Date Taken: 05/04/1994
Time Taken: 09:10
NET Sample No: 193364

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTEX,Solid)							
METHOD 5030/M8015	--						05/16/1994
DILUTION FACTOR*	1						05/16/1994
as Gasoline	ND		1	mg/kg	5030		05/16/1994
METHOD 8020 (GC,Solid)	--						05/16/1994
Benzene	ND		2.5	ug/kg	8020		05/16/1994
Toluene	ND		2.5	ug/kg	8020		05/16/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/16/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/16/1994
SURROGATE RESULTS	--						05/16/1994
Bromofluorobenzene (SURRE)	79			% Rec.	5030		05/16/1994
METHOD 3550/M8015						05/10/1994	
DILUTION FACTOR*	1						05/10/1994
as Diesel	ND		1	mg/kg	3550		05/10/1994
as Motor Oil	ND		10	mg/kg	3550		05/10/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria
NET Job No: 94.01852

Date: 05/18/1994
ELAP Certificate: 1386
Page: 6

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-E 5'
Date Taken: 05/04/1994
Time Taken: 09:55
NET Sample No: 193365

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTEX, Solid)							
METHOD 5030/M8015	--						05/16/1994
DILUTION FACTOR*	1						05/16/1994
as Gasoline	ND		1	mg/kg	5030		05/16/1994
METHOD 8020 (GC, Solid)	--						05/16/1994
Benzene	ND		2.5	ug/kg	8020		05/16/1994
Toluene	ND		2.5	ug/kg	8020		05/16/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/16/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/16/1994
SURROGATE RESULTS	--						05/16/1994
Bromofluorobenzene (SURR)	77			% Rec.	5030		05/16/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
 Client Name: Cambria
 NET Job No: 94.01852

Date: 05/18/1994
 ELAP Certificate: 1386
 Page: 7

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-E 10'
 Date Taken: 05/04/1994
 Time Taken: 10:05
 NET Sample No: 193366

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						05/16/1994
DILUTION FACTOR*	1						05/16/1994
as Gasoline	ND		1	mg/kg	5030		05/16/1994
METHOD 8020 (GC,Solid)	--						05/16/1994
Benzene	ND		2.5	ug/kg	8020		05/16/1994
Toluene	ND		2.5	ug/kg	8020		05/16/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/16/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/16/1994
SURROGATE RESULTS	--						05/16/1994
Bromofluorobenzene (SURR)	70			% Rec.	5030		05/16/1994
METHOD 3550/M8015						05/10/1994	
DILUTION FACTOR*	1						05/10/1994
as Diesel	ND		1	mg/kg	3550		05/10/1994
as Motor Oil	ND		10	mg/kg	3550		05/10/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria
NET Job No: 94.01852

Date: 05/18/1994
ELAP Certificate: 1386
Page: 8

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-F 5'
Date Taken: 05/04/1994
Time Taken: 11:03
NET Sample No: 193367

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTEX,Solid)							
METHOD 5030/M8015	--						05/16/1994
DILUTION FACTOR*	1						05/16/1994
as Gasoline	ND		1	mg/kg	5030		05/16/1994
METHOD 8020 (GC,Solid)	--						05/16/1994
Benzene	ND		2.5	ug/kg	8020		05/16/1994
Toluene	ND		2.5	ug/kg	8020		05/16/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/16/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/16/1994
SURROGATE RESULTS	--						05/16/1994
Bromofluorobenzene (SURR)	83			% Rec.	5030		05/16/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
 Client Name: Cambria
 NET Job No: 94.01852

Date: 05/18/1994
 ELAP Certificate: 1386
 Page: 9

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-F 10'
 Date Taken: 05/04/1994
 Time Taken: 11:40
 NET Sample No: 193368

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTEX,Solid)							
METHOD 5030/M8015	--						05/16/1994
DILUTION FACTOR*	1						05/16/1994
as Gasoline	ND		1	mg/kg	5030		05/16/1994
METHOD 8020 (GC,Solid)	--						05/16/1994
Benzene	ND		2.5	ug/kg	8020		05/16/1994
Toluene	ND		2.5	ug/kg	8020		05/16/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/16/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/16/1994
SURROGATE RESULTS	--						05/16/1994
Bromofluorobenzene (SURR)	81			% Rec.	5030		05/16/1994
METHOD 3550/M8015						05/10/1994	
DILUTION FACTOR*	1						05/10/1994
as Diesel	ND		1	mg/kg	3550		05/10/1994
as Motor Oil	ND		10	mg/kg	3550		05/10/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria
NET Job No: 94.01852

Date: 05/18/1994
ELAP Certificate: 1386
Page: 10

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-G 5'
Date Taken: 05/04/1994
Time Taken: 14:30
NET Sample No: 193369

<u>Parameter</u>	<u>Results</u>	<u>Flags</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Method</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>
TPH (Gas/BTEX,Solid)							
METHOD 5030/M8015	--						05/17/1994
DILUTION FACTOR*	1						05/17/1994
as Gasoline	2.4	gh	1	mg/kg	5030		05/17/1994
METHOD 8020 (GC,Solid)	--						05/17/1994
Benzene	ND		2.5	ug/kg	8020		05/17/1994
Toluene	ND		2.5	ug/kg	8020		05/17/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/17/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/17/1994
SURROGATE RESULTS	--						05/17/1994
Bromofluorobenzene (SURR)	79			% Rec.	5030		05/17/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
 Client Name: Cambria
 NET Job No: 94.01852

Date: 05/18/1994
 ELAP Certificate: 1386
 Page: 11

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-G 10'
 Date Taken: 05/04/1994
 Time Taken: 14:45
 NET Sample No: 193370

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTEX,Solid)							
METHOD 5030/M8015	--						05/17/1994
DILUTION FACTOR*	2						05/17/1994
as Gasoline	88	FC	2	mg/kg	5030		05/17/1994
METHOD 8020 (GC,Solid)							
Benzene	8.6		5	ug/kg	8020		05/17/1994
Toluene	24	FC	5	ug/kg	8020		05/17/1994
Ethylbenzene	83	FC	5	ug/kg	8020		05/17/1994
Xylenes (Total)	1,200	FC	5	ug/kg	8020		05/17/1994
SURROGATE RESULTS							
Bromofluorobenzene (SURR)	127	MI		% Rec.	5030		05/17/1994
METHOD 3550/M8015							
DILUTION FACTOR*	10					05/10/1994	05/10/1994
as Diesel	500		10	mg/kg	3550		05/10/1994
as Motor Oil	160		100	mg/kg	3550		05/10/1994

FC : Compound quantitated at a 10X dilution factor.
 MI : Matrix Interference Suspected

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
 Client Name: Cambria
 NET Job No: 94.01852

Date: 05/18/1994
 ELAP Certificate: 1386
 Page: 12

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-H 11'
 Date Taken: 05/04/1994
 Time Taken: 15:30
 NET Sample No: 193371

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTEX,Solid)							
METHOD 5030/M8015	--						05/17/1994
DILUTION FACTOR*	1						05/17/1994
as Gasoline	ND		1	mg/kg	5030		05/17/1994
METHOD 8020 (GC,Solid)	--						05/17/1994
Benzene	ND		2.5	ug/kg	8020		05/17/1994
Toluene	ND		2.5	ug/kg	8020		05/17/1994
Ethylbenzene	ND		2.5	ug/kg	8020		05/17/1994
Xylenes (Total)	ND		2.5	ug/kg	8020		05/17/1994
SURROGATE RESULTS	--						05/17/1994
Bromofluorobenzene (SURR)	87			% Rec.	5030		05/17/1994
METHOD 3550/M8015						05/10/1994	
DILUTION FACTOR*	1						05/10/1994
as Diesel	ND		1	mg/kg	3550		05/10/1994
as Motor Oil	ND		10	mg/kg	3550		05/10/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria
NET Job No: 94.01852

Date: 05/18/1994
ELAP Certificate: 1386
Page: 13

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-C GW
Date Taken: 05/04/1994
Time Taken: 08:40
NET Sample No: 193372

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015	--						05/13/1994
DILUTION FACTOR*	1						05/13/1994
as Gasoline	0.15		0.05	mg/L	5030		05/13/1994
METHOD 8020 (GC, Liquid)	--						05/13/1994
Benzene	1.9		0.5	ug/L	8020		05/13/1994
Toluene	5.4		0.5	ug/L	8020		05/13/1994
Ethylbenzene	5.2		0.5	ug/L	8020		05/13/1994
Xylenes (Total)	41		0.5	ug/L	8020		05/13/1994
SURROGATE RESULTS	--						05/13/1994
Bromofluorobenzene (SURR)	112			% Rec.	5030		05/13/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 98900
Client Name: Cambria
NET Job No: 94.01852

Date: 05/18/1994
ELAP Certificate: 1386
Page: 14

Ref: Albany Ford

SAMPLE DESCRIPTION: SB-B GW
Date Taken: 05/04/1994
Time Taken: 12:15
NET Sample No: 193373

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTEX, Liquid)							
METHOD 5030/M8015	--						05/13/1994
DILUTION FACTOR*	1						05/13/1994
as Gasoline	0.09		0.05	mg/L	5030		05/13/1994
METHOD 8020 (GC, Liquid)	--						05/13/1994
Benzene	0.9		0.5	ug/L	8020		05/13/1994
Toluene	2.0		0.5	ug/L	8020		05/13/1994
Ethylbenzene	0.7		0.5	ug/L	8020		05/13/1994
Xylenes (Total)	2.9		0.5	ug/L	8020		05/13/1994
SURROGATE RESULTS	--						05/13/1994
Bromofluorobenzene (SURR)	90			% Rec.	5030		05/13/1994

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

CHAIN OF CUSTODY RECORD

9174

COMPANY CAMBIZIA
 ADDRESS 1144 65th ST, SUITE C, OAKLAND 94608
 PHONE (510) 420-0700 FAX (510) 420-9170
 PROJECT NAME/LOCATION ALBANY Falls
 PROJECT NUMBER _____
 PROJECT MANAGER SCOTT MALLECO

REPORT TO: SCOTT MALLECO
 INVOICE TO: SCOTT MALLECO
 P.O. NO. _____
 NET QUOTE NO. CALL

SAMPLED BY SCOTT MALLECO
 (PRINT NAME)
 (PRINT NAME)

SIGNATURE _____
 SIGNATURE _____

ANALYSES

*TDH-G / B170
 ALL CHAINS HAND
 B1 MATRIX
 motor oil
 diesel
 prof to JK
 5/16/94*

DATE	TIME	SAMPLE ID/DESCRIPTION	GRAB	COMP	# OF CONTAINERS TYPE	MATRIX	PRESERVED Y/N	ANALYSES	COMMENTS
5/15/94	10:38	S13-A 6'	X	N	17002	SLIC	~		HOLD
	10:55	" 11'						X X	
	11:51	" 20'							HOLD
	2:40	S13-B 6'							HOLD
	2:56	" 11'						X X	
	3:10	" 13'							HOLD
	3:47	S13-C 6'							HOLD
	3:59	" 11'						X X	

*(CUSTODY SEAL INTACT)
 5/17/94
 [Signature]
 seal intact*

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
 FIELD FILTERED? YES / NO
 COC SEALS PRESENT AND INTACT? YES / NO
 VOLATILES FREE OF HEADSPACE? YES / NO
 TEMPERATURE UPON RECEIPT: 10°C

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA _____
 REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINERS _____ DATE _____

RELINQUISHED BY: [Signature] DATE/TIME: 5/15/94 17:31
 RECEIVED BY: [Signature] DATE/TIME: 5/15/94 10:50
 RELINQUISHED BY: [Signature] DATE/TIME: 5/15/94 17:50
 RECEIVED FOR NET BY: [Signature] DATE/TIME: 5/16/94 0800

METHOD OF SHIPMENT
(VIA NCS)

REMARKS:



APPENDIX C

Standard Field Procedures

STANDARD FIELD PROCEDURES

This document describes standard field methods for drilling and sampling soil borings and installing, developing and sampling ground water monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

SOIL BORING AND SAMPLING

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG).

Soil Boring and Sampling

Soil borings are typically drilled using solid flight or hollow-stem augers. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using split-barrel samplers lined with steam-cleaned brass or stainless steel tubes that are driven through the hollow auger stem into undisturbed sediments at the bottom of the borehole. Samples are driven using a 140 pound hammer dropped 30 inches.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labelled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor

concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the stratigraphy and ground water depth to select soil samples for analysis.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe. If wells are completed in the borings, the well installation, development and sampling procedures summarized below are followed.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Wells are installed to monitor ground water quality and determine the ground water elevation, flow direction and gradient. Well depths and screen lengths are based on ground water depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 ft below and 5 ft above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three ft thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two ft above the well screen. A two ft thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development

Wells are generally developed using a combination of ground water surging and extraction. Surging agitates the ground water and dislodges fine sediments from the sand pack. After about ten minutes of surging, ground water is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of ground water are extracted and the sediment volume in the ground water is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Ground Water Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of ground water are purged prior to sampling. Purging continues until ground water pH, conductivity, and temperature have stabilized. Ground water samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labelled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.