CAMBRIA

STID 4022

May 22, 2001

Mr. Amir K. Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Groundwater Monitoring Well Installation Report**
Shell-branded Service Station
2120 Montana Street
Oakland, California
Incident #98995740
Cambria Project # 243-0733-006

Dear Mr. Gholami:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting the results of the monitoring well installations conducted on February 20 and 21, 2001 at the referenced site. The investigation was conducted in accordance with Cambria's June 7, 2000 *Subsurface Investigation Report and Work Plan for Installation of Groundwater Monitoring Wells,* which was approved in an Alameda County Health Care Services Agency (ACHCSA) letter dated October 27, 2000. The objective of the investigation was to evaluate the extent of hydrocarbons and MTBE in soil and groundwater beneath the site. Presented below are the site background, investigation procedures, investigation results, and conclusions and recommendations.

The ACHCSA has requested a risk management plan (RMP) in past correspondence. In the June 7, 2000 report and work plan referenced above, Cambria stated that "A risk management plan and site conceptual model (SCM) will be developed upon completion of site investigation activities." An SCM is presented in this report as Attachment A. However, we believe submittal of an RMP is inappropriate at this time. RMPs are intended to identify potential risk due to residual subsurface contaminants prior to development and construction activity at a site. The site is an operating gasoline service station and no redevelopment is planned at this time. In addition, a groundwater-monitoring program has just begun at the site. Groundwater monitoring, when necessary, is an aspect of site assessment, and results and trends should be part of any evaluation of subsurface conditions at a site. Prior to any site redevelopment, current conditions will be evaluated and a determination of whether an RMP is necessary will be made.

Oakland, CA
San Ramon, CA
Sonoma, CA

Cambria Environmental Technology, Inc.

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

SITE BACKGROUND

Site Location: This operating Shell-branded service station is located at the intersection of Montana Street and Fruitvale Avenue in Oakland, California. Commercial properties lie to the north and east of the site, and residential properties lie to the west. Montana Street, a freeway on-ramp, and Highway 580 are located south of the site (Figure 1).

1997 Dispenser/Turbine Sump Upgrades: In November 1997, Paradiso Mechanical of San Leandro, California upgraded fuel-related equipment at the service station. Secondary containment was added to the three existing dispensers and to the turbine sumps above the underground storage tanks (USTs) (Figure 1). Soil samples D-1, D-2, and D-3 were collected from beneath the dispensers at a depth of approximately 5 feet below grade (fbg). Soil samples were not collected from beneath the associated piping since it was not exposed during the upgrade activities. The maximum total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tertiary butyl ether (MTBE by EPA Method 8020) concentrations were reported in sample D-3 at 59 parts per million (ppm), 0.76 ppm, and 1.1 ppm, respectively.

1999 Subsurface Investigation: In October 1999, Cambria advanced soil borings SB-1 through SB-3 (Figure 1). SB-1 was advanced to 16 fbg, and SB-2 and SB-3 were advanced to 20 fbg. The maximum detected hydrocarbon concentrations in soil were 54 ppm TPHg in boring SB-1 at 5.0 fbg, 0.019 ppm benzene in boring SB-2 at 15 fbg, and 0.24 ppm MTBE (by EPA Method 8260) in boring SB-2 at 10.0 fbg. The maximum reported hydrocarbon concentrations in groundwater were 2,380 parts per billion (ppb) TPHg in boring SB-3, 10.6 ppb benzene in SB-2, and 3,210 ppb MTBE (by EPA Method 8020) in SB-3.

INVESTIGATION PROCEDURES

Cambria installed three groundwater monitoring wells to further evaluate the extent of hydrocarbons and MTBE in soil and groundwater beneath the site. Two of the wells were installed onsite and a third was installed offsite in the expected downgradient direction from the dispensers and USTs. The procedures for this investigation, as described in Cambria's approved work plan, are summarized below. Monitoring well locations are shown on Figure 1. Soil analytical results are summarized in Table 1. The certified laboratory analytical reports are presented as Attachment B. Boring logs and Cambria's "Standard Field Procedures for Monitoring Wells" are presented as Attachments C and D, respectively.

Personnel Present:	James Loetterle, Staff Geologist, of Cambria Jeff Allen, of Flash Safety Co. Bobby Deason and Fausto Sauto, of Gregg Drilling and Testing Inc. Wyatt Bishop, Sewer Inspector, of the City of Oakland
Permit:	Alameda County Public Works Agency Drilling Permits #WO1346, #WO1347 and #WO1348. City of Oakland Minor Encroachment Permit for 2120 Montana Street City of Oakland Excavation Permit #X0100425 (Attachment E)
Drilling Company:	Gregg Drilling of Martinez, California (C-57 License #485165)
Drilling Date:	February 20 and 21, 2001
Drilling Method:	Eight-inch hollow-stem auger
Number of Borings:	Three (MW-1, MW-2, and MW-3). The borings were converted into monitoring wells.
Boring Depths:	MW-1 was advanced to 28 fbg. MW-2 and MW-3 were advanced to 21.5 fbg.
Number of Wells:	Three (MW-1, MW-2, MW-3)
Well Construction:	Monitoring wells MW-1, MW-2, and MW-3 are all constructed of 2-inch diameter, schedule 40 PVC. All wells are installed in 8-inch diameter borings and have a filter pack of #2/12 Monterey Sand. MW-1 is screened from 13 to 28 fbg with 0.010-inch schedule 40 PVC, has a bentonite seal from 9 to 11 fbg, and a Portland Cement seal from 0 to 9 fbg. MW-2 and MW-3 are screened from 5 to 20 fbg with 0.010-inch schedule 40 PVC, have a bentonite seal from 3 to 4 fbg, and a Portland Cement seal from 0 to 3 fbg (Attachment C).
Sediment Lithology:	Subsurface sediment consists of sandy silt, silty sand, sand, and clayey sand to the maximum explored depth of 28.0 fbg. Boring logs are included as Attachment C.

Groundwater Depth: Groundwater was first encountered at 19.0 fbg in MW-1, 10.0 fbg in MW-2, and 16.6 fbg in MW-3. On February 21, groundwater was measured in MW-1 at approximately 11.5 fbg.

Groundwater Monitoring Well Development and Sampling: On March 19, 2001, Blaine Tech Services, Inc. (Blaine) of San Jose, California developed the three new wells by surging and bailing. On March 23, Blaine gauged and sampled all wells, calculated groundwater elevations, and compiled the analytical data. Groundwater elevation contours are shown on Figure 1. Blaine's report, summarizing analytical results and presenting the laboratory report and supporting field documents, is included as Attachment F.

Chemical Analyses: The soil samples were analyzed as follows:

- TPHg, Benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE by EPA Method 8260B.

The groundwater samples were analyzed as follows:

- TPHg and BTEX by DHS LUFT;
- Tertiary-Butyl alcohol, MTBE, Di-isopropyl ether, Ethyl tertiary-butyl ether, tertiary-Amyl methyl ether, 1,2-Dichloroethane, Ethylene dibromide by EPA Method 8260A.

To characterize stockpiled soil for disposal, four brass tubes of soil were collected from the stockpile, and then composited by the analytical laboratory. The composite samples were analyzed for:

- TPHg by Modified EPA Method 8015;
- BTEX by EPA Method 8020; and
- TTLC lead.

Soil Handling: Soil cuttings produced from the borings was transported by Manley and Sons Trucking of Sacramento, California to Forward Landfill in Manteca, California on March 27, 2001 (Attachment G).

Well Surveying: Virgil Chavez Land Surveying of Vallejo, California surveyed the wells to mean sea level on March 29, 2001 (Attachment H).

INVESTIGATION RESULTS

Hydrocarbon Distribution in Soil: No hydrocarbons or MTBE were detected in any of the soil samples collected from MW-3, located in the expected upgradient direction from the dispensers and USTs. No hydrocarbons or MTBE were detected in any of the soil samples collected between 0 and 10.5 fbg from MW-2, located offsite in Montana Street. The maximum concentrations of hydrocarbons detected in MW-2 were 10 miligrams per kilogram (mg/kg) TPHg at 21.0 fbg, 5.2 mg/kg MTBE (by EPA Method 8260) at 15.5 fbg, and 0.028 mg/kg benzene at 21.0 fbg. The maximum concentrations of hydrocarbons detected in MW-1, located at the east end of the site, were 4.7 mg/kg TPHg and 0.0666 mg/kg benzene at 10.0 fbg, and 5.0 mg/kg MTBE (by EPA Method 8260) at 15.5 fbg. Soil analytical results are summarized in Table 1 and presented as Attachment B.

Hydrocarbon Distribution in Groundwater: BTEX and MTBE were detected at elevated concentrations in post development samples from MW-1 and MW-2 downgradient (west-southwest) of the USTs and dispensers. The highest analyte concentrations were from MW-1 and included 16,600 ppb TPHg, 753 ppb benzene an[redacted] No other oxygenate analytes were detected in the groundwater samples. No BTEX or TPHg, and only 1.26 ppb MTBE were detected in the groundwater sample from MW-3. Analytical results are presented in [redacted]

CONCLUSIONS AND RECOMMENDATIONS

The results of this investigation indicate groundwater impact in the general downgradient direction from the dispensers and USTs. We recommend the wells be monitored quarterly to evaluate future chemical concentration, groundwater gradient, and elevation trends. [redacted]

ALSO ACTIVE REMEDIATION

CLOSING

We appreciate the opportunity to work with you on this project. Please call James Loetterle at (510)-420-3336 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

James Loetterle
Staff Geologist

Stephan A. Bork, C.E.G., C.HG.
Associate Hydrogeologist

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 2058
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Figure: 1 - Groundwater Elevation Contour Map

Table: 1 - Soil Analytical Results

Attachments:
A - Site Conceptual Model
B - Certified Laboratory Analytical Reports
C - Well Boring Logs
D - Standard Field Procedures for Monitoring Wells
E - Permits
F - Blaine Groundwater Monitoring Report and Field Notes
G - Soil Disposal Confirmation
H - Well Survey Results

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869

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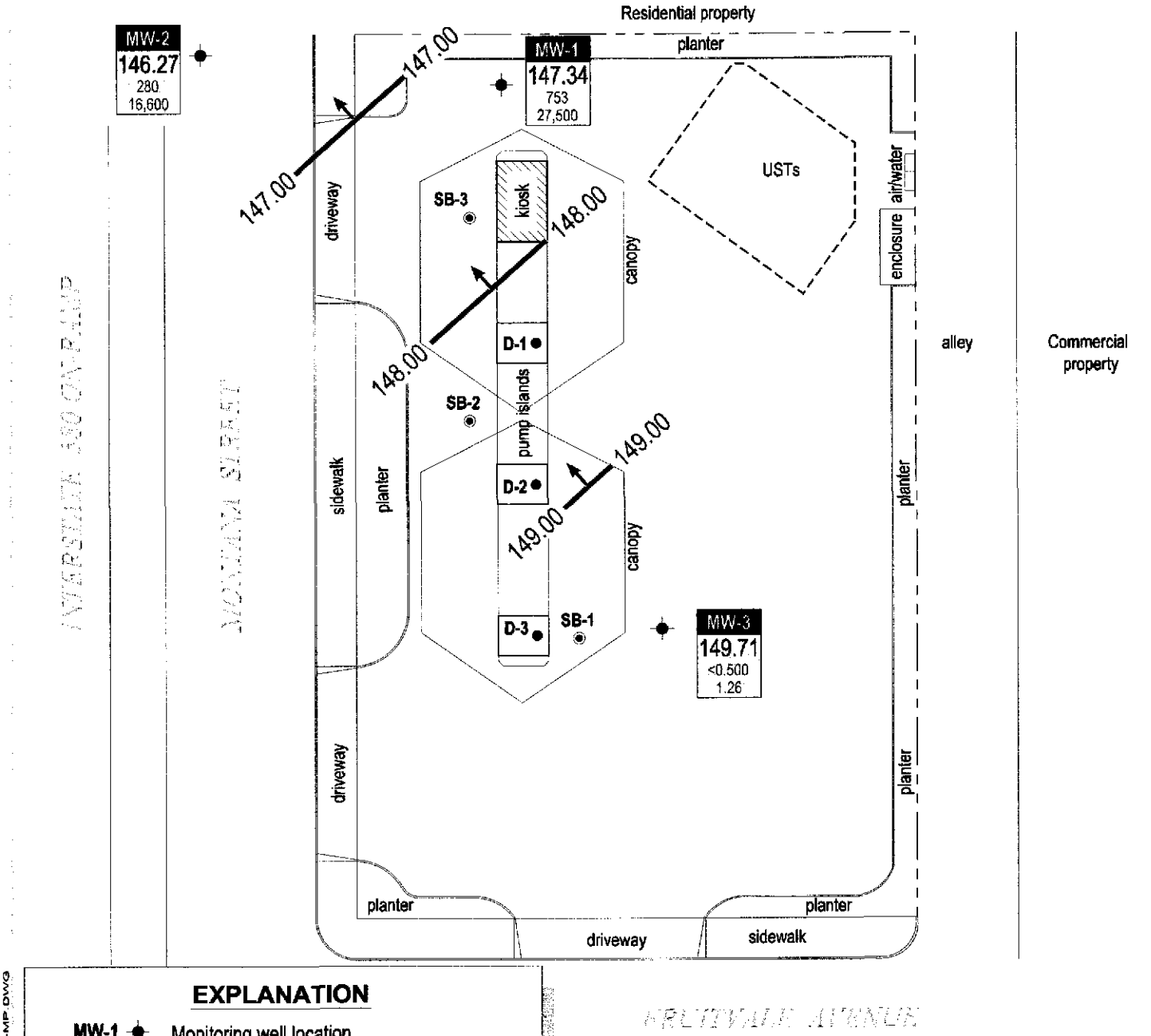

EXPLANATION

- **MW-1** ✦ Monitoring well location
- **SB-1** ◉ Cambria soil boring location (10/99)
- **D-1** ● Cambria soil sampling location (11/97)
- → Groundwater flow direction
- ~~XX.XX~~ Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well
ELEV
Benzene
MTBE

- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion. BTEX is analyzed by EPA Method 8020 and MTBE is analyzed by EPA Method 8260

N

0 15 30

Scale (ft)

FIGURE **1**

G:\OAKLAND2120MONTANA\FIGURES\1QM01-MP.DWG

Shell-branded Service Station
2120 Montana Street
Oakland, California
Incident #98995740

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Groundwater Elevation Contour Map

March 23, 2001

Table 1. [redacted] Analytical Results - Shell-branded Service Station - 2120 Montana Ave., Oakland, California, Incident # 98995740

Sample ID	Depth (in fbg)	Date Sampled	TPHg	[redacted]	[redacted]	Toluene	Ethylbenzene	Xylenes
			← (Concentrations reported in [redacted]) →					
MW-1-5.5	5.5	[redacted]1	<1.0	**0.12**	<0.0050	<0.0050	<0.0050	<0.0050
MW-1-10.0	10	2/20/01	**4.7**	**2.4**	[redacted]	<0.0050	**0.12**	**0.14**
MW-1-15.5	15.5	2/20/01	**1.0**	[redacted]	**0.014**	**0.041**	**0.024**	**0.098**
MW-1-20.5	20.5	2/20/01	**1.5**	**2.0**	**0.023**	**0.16**	**0.037**	**0.17**
MW-1-24.0	24	2/20/01	**4.4**	**0.51**	**0.024**	**0.14**	**0.050**	**0.27**
MW-2-5.5	5.5	2/21/01	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-2-10.5	10.5	2/21/01	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-2-15.5	15.5	2/21/01	<1.0	[redacted]	<0.0050	<0.0050	<0.0050	<0.0050
MW-2-21.0	21	2/21/01	**10**	**1.3**	**0.028**	**0.012**	**0.080**	**0.021**
MW-3-5.5	5.5	2/21/01	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-3-10.5	10.5	2/21/01	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-3-15.5	15.5	2/21/01	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-3-20.5	20.5	2/21/01	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Abbreviations and Notes:

TPHg = Total purgable hydrocarbons as gasoline.
MTBE = Methyl tertiary butyl ether.
All samples analyzed by EPA Method 8260
fbg = feet below grade
mg/kg = milgrams per kilogram
<n = Below detection limits for n milligrams per kilograms.

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ATTACHMENT A

Site Conceptual Model

SITE CONCEPTUAL MODEL

Date: April 2, 2001

Cambria Environmental Technology, Inc.

Site Address:	2120 Montana Street	**Incident Number:**	98995740
City:	Oakland	**Regulator:**	Alameda County Health Care Services Agency

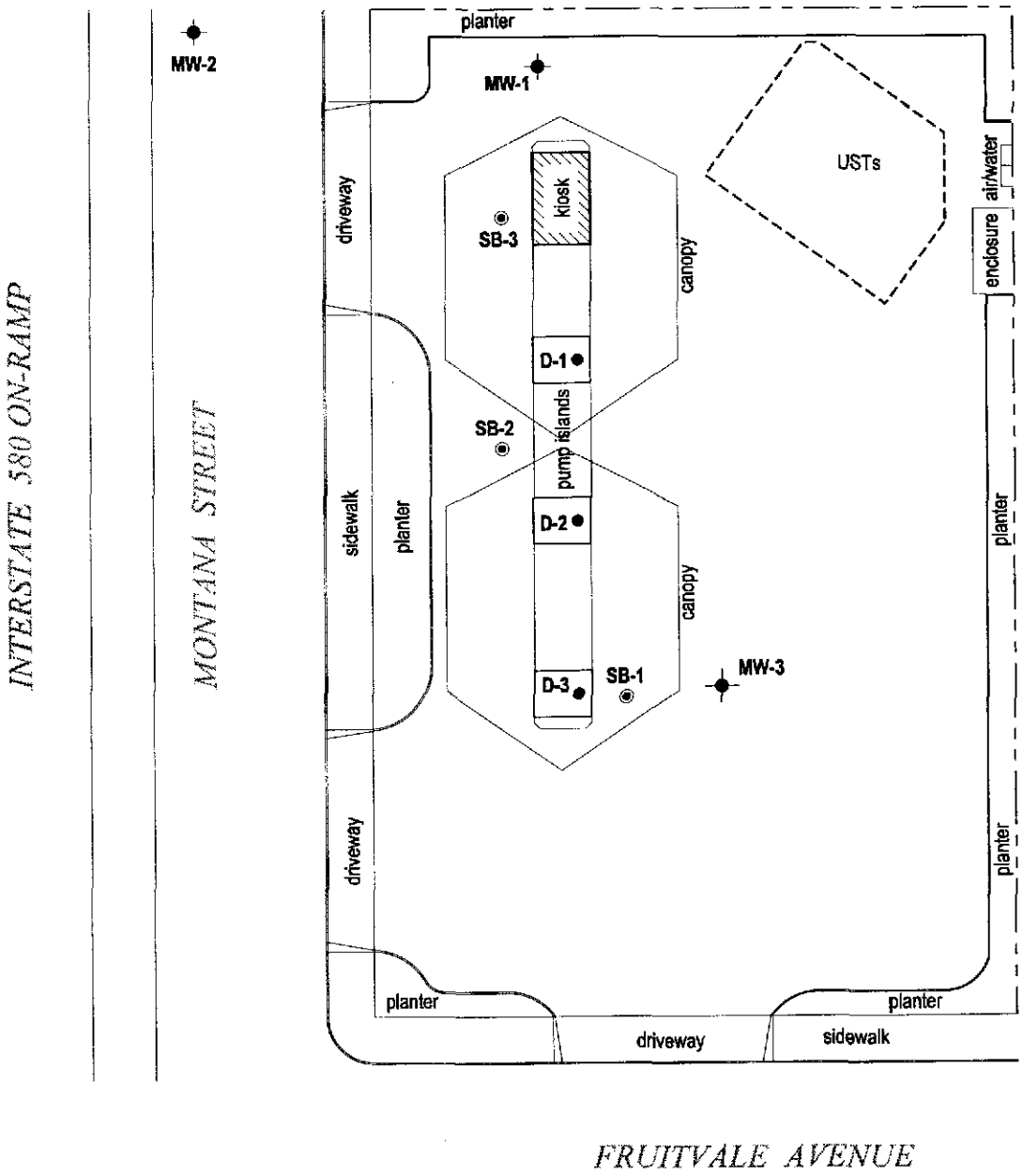
Item	Evaluation Criteria	Comments/Discussion
1	**Hydrocarbon Source**	
1.1	Identify/Describe Release Source and Volume (if known)	Release source and volume are unknown.
1.2	Discuss Steps Taken to Stop Release	Although the release source is unknown, secondary containment was added to dispenser pans and turbine sumps in November 1997.
2	**Site Characterization**	
2.1	*Current Site Use/Status*	*The site is an operating Shell-brandedservice station. Commercial* properties lie to the north and east of the site, and residential properties lie to the to the west. Montana Street, a freeway on-ramp, and Highway 580 are located south of the site.
2.2	Soil Definition Status	The lateral extent of hydrocarbons and MTBE in soil is defined north of the dispenser islands by non-detection of contaminants in soil samples collected from boring MW-3. Soil samples collected west, south and east of the USTs and dispensers contained no more than 54 ppm TPHg, 0.066 ppm benzene, and 5.4 ppm MTBE at depths between 5 and 24 fbg.
2.3	Separate-Phase Hydrocarbon (SPH) Definition Status	SPH has not been detected at the site
2.4	Groundwater Definition Status (BTEX)	The BTEX extent in onsite groundwater is undefined.
2.5	BTEX Plume Stability and Concentration Trends	No plume trend information is available at this time. The maximum detected concentration of benzene in groundwater is 753 ppb in well MW-1.
2.6	Groundwater Definition Status (MTBE)	The MTBE extent in onsite groundwater is undefined.
2.7	MTBE Plume Stability and Concentration Trends	No plume trend information is available at this time. The maximum detected concentration of MTBE is 27,500 ppb in well MW-1.
2.8	Groundwater Flow Direction, Depth Trends and Gradient Trends	Groundwater flow direction is toward the west to southwest as calculated in February 2001. The depth to groundwater ranges from 11.5 to 12.5 fbg.
2.9	Stratigraphy and Hydrogeology	Subsurface sediment consists of sandy silt, silty sand, sand, and clayey sand to the maximum explored depth of 28.0 fbg.
2.10	Preferential Pathways Analysis	No preferential pathway analysis has been performed.
2.11	Other Pertinent Issues	
3	**Remediation Status**	
3.1	Remedial Actions Taken	None.
3.2	Area Remediated	NA
3.3	Remediation Effectiveness	NA

Table 2. Groundwater Analytical Data - Shell Service Station - 2120 Montana Ave., Oakland, California, Incident # 98995740

Sample ID	Depth	TPHg	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
		←		(Concentrations reported in ppb)		→	
[redacted]							
SB-1-W	15	446	50.3	4.72	1.57	<0.500	4.53
SB-2-W	20	524	59.4	[redacted]	1.47	2.42	2.18
[redacted]	20	2,380	[redacted]	6.75	6.63	46.4	75.2

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015.
Benzene, ethylbenzene, toluene, xylenes by EPA Method 8020.
MTBE = Methyl tertiary butyl ether by EPA Method 8020.
ppb = parts per billion
<n = Below detection limits for n ppb.



EXPLANATION

- MW-1 ✦ Monitoring well location
- SB-1 ◉ Soil boring and hydropunch location
- D-1 ● Soil sampling location

N

0 15 30

Scale (ft)

FIGURE

1

G:\OAKLAND\2120MONTANA\FIGURES\WELL-LOC.DWG

Shell-branded Service Station
2120 Montana Street
Oakland, California
Incident #98995740

CAMBRIA

Monitoring Well Location Map

Cambria Environmental Technology, Inc.
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Oakland, CA 94608
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Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-1
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	20-Feb-01
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	20-Feb-01
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	160.16
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	159.59 ft
BORING DIAMETER	8"	**SCREENED INTERVAL**	13 to 28 ft bgs
LOGGED BY	J. Loetterle	**DEPTH TO WATER (First Encountered)**	19.0 ft (20-Feb-01)
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	11.5 ft (20-Feb-01)
REMARKS	Hand augered to 5'. Located at north end of station, 45' from the curb, and 10' from fence.		

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								CONCRETE	0.7
								FILL; dark brown; damp; 5% clay, 10% silt, 80% fine to coarse sand; no plasticity.	
			MW-1 5.5		5	ML		**Sandy SILT** (ML); reddish brown; medium stiffness; damp; 10% clay, 50% silt, 40% fine sand; low plasticity; contains rootlets.	5.0
			MW-1 10.0		10	SM		**Silty SAND** (SM); grey/reddish brown; loose; damp; 10% clay, 30% silt, 60% fine sand; low plasticity; contains organic fragments. ▼	10.0
			MW-1 15.5		15	SP		**SAND** (SP); reddish brown; very loose; wet; 10% clay, 10% silt, 80% fine sand; low plasticity. ▽	15.0
			MW-1 20.5		20	SC		**Clayey SAND** (SC); grey; very loose; wet; 15% clay, 5% silt, 80% fine to medium sand; medium plasticity.	20.0
			MW-1 24.0		25			@ 25 fbg - grey/brown; contains faint petroleum odor.	28.0

WELL DIAGRAM

- Bentonite Seal
- Monterey Sand #2/12
- 2"-diam., 0.010" Slotted Schedule 40 PVC
- Bottom of Boring @ 28 ft

WELL LOG (PID/TPHD) G:\OA8300-1\GINT\GINT.GPJ DEFAULT.GDT 5/17/01

Cambria Environmental Technology, Inc.
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Oakland, CA 94608
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	21-Feb-01
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	21-Feb-01
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	158.29
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	158.03 ft
BORING DIAMETER	8"	***SCREENED INTERVAL***	5 to 20 ft bgs
LOGGED BY	J. Loetterle	**DEPTH TO WATER (First Encountered)**	10.0 ft (21-Feb-01) ▽
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA ▼

REMARKS Hand augered to 5'. Located in the middle of the west bound lane of Montana Street, approximately 5' east of the property line.

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.7	Portland Type I/II
								FILL; dark brown; damp; 5% clay, 10% silt, 80% fine to coarse sand; no plasticity.	4.0	Bentonite Seal
			MW-2 5.5		5	SM		**Silty SAND** (SM); light brown; damp; 5% clay 20% silt, 75% fine to medium sand; no plasticity.		Monterey Sand #2/12
					10			▽	10.0	
			MW-2 10.5			ML		**Sandy SILT** (ML); reddish brown; medium stiffness; damp; 10% clay, 50% silt, 40% fine sand; low plasticity; contains rootlets.		2"-diam., 0.010" Slotted Schedule 40 PVC
			MW-2 15.5		15	SM		**Silty SAND** (SM); grey/reddish brown; loose; damp; 10% clay, 30% silt, 60% fine sand; low plasticity; contains organic fragments.	15.0	
			MW-2 21.0		20	SC		**Clayey SAND** (SC); grey; very loose; wet; 15% clay, 5% silt, 80% fine to medium sand; medium plasticity.	20.0 / 21.5	Bottom of Boring @ 21.5 ft

WELL LOG (PID/TPHD) G:\OA8300-11\GINT\GINT.GPJ DEFAULT.GDT 5/17/01

Cambria Environmental Technology, Inc.
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Oakland, CA 94608
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-3
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	21-Feb-01
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	21-Feb-01
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	161.61
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	161.13 ft
BORING DIAMETER	8"	**SCREENED INTERVAL**	5 to 20 ft bgs
LOGGED BY	J. Loetterle	**DEPTH TO WATER (First Encountered)**	16.6 ft (21-Feb-01) ▽
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA ▼

REMARKS Hand augered to 5'. Located at the east end of the station, approximately 18' north of the eastern dispenser.

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.7	Portland Type I/II
								FILL; dark brown; damp; 20% clay, 30% silt, 50% sand; medium plasticity.	2.0	
						SC		**Clayey SAND** (SC); light brown; damp; loose; 15% clay, 15% silt, 60% fine sand, 10% fine to coarse gravel. @ 3 fbg - brown; 20% clay, 10% silt, 60% fine sand, 10% fine to coarse gravel.	4.0	Bentonite Seal
					5			**Silty SAND** (SM); brown; damp; loose; 10% clay, 30% silt, 60% fine sand; medium plasticity; contains organic fragments.		Monterey Sand #2/12
			MW-3 5.5			SM				
					10				10.0	
			MW-3 10.5					**Clayey SAND** (SC); olive brown; damp; medium dense; 20% clay, 15% silt, 65% fine to coarse, subrounded sand; medium plasticity.		2"-diam., 0.010" Slotted Schedule 40 PVC
			MW-3 15.5		15	SC		@ 15 fbg - reddish brown; loose; moist; 20% clay, 10% silt, 70% fine to medium, subrounded sand; medium plasticity. ▽		
					20			@ 20 fbg - grey; wet.		
			MW-3 20.5						21.5	Bottom of Boring @ 21.5 ft

WELL LOG (PID/TPHD) G:\OA8300-1\GINT\GINT.GPJ DEFAULT.GDT 5/17/01

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-1
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	27-Oct-99
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	27-Oct-99
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	M. Gaffney	**DEPTH TO WATER (First Encountered)**	12.5 ft (27-Oct-99) ▽
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand Augered to 5 feet		

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.5	
								Silty SAND; (SM); brown; dry; 5% clay, 25% silt, 65% sand, 5% gravel; high estimated permeability.		
			SB-1 5.0		5	SM		@ 5'-gray; dry; 10% silt 80% sand, 10% gravel; low plasticity.		◄ Portland Type I/II
			SB-1 10.0		10	SP		**SAND**; Gray; dry; 10% silt, 80% sand, 10% gravel; high estimated permeability. ▽	10.0	
					15			@ 15'- orange; 10% silt, 90% solidified coarse grained sand; medium estimated permeability.	16.0	Bottom of Boring @ 16 ft

WELL LOG (PID/TPHD) G:\OA8300-1\GINT\GINT.GPJ DEFAULT.GDT 5/17/01

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-2
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	27-Oct-99
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	27-Oct-99
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	M. Gaffney	**DEPTH TO WATER (First Encountered)**	16.5 ft (27-Oct-99) ▽
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand Augered to 5 feet		

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.5	Portland Type I/II
			SB-2 5.0		5			**Silty SAND**; gray green; dry; 5% clay, 25% silt, 65% sand, 5% gravel; medium plasticity; high estimated permeability.		
			SB-2 8.0					@ 5'-gray; 30% silt, 65% sand, 5% gravel; high estimated permeability.		
					10	SM		@ 12'-gray green; moist; 30% silt, 70% sand; medium estimated permeability.		
					15			@ 15'-brown; medium estimated permeability.		
			SB-2 16					@ 16.5'- wet; medium estimated permeability. ▽		
			SB-2 20		20				20.0	Bottom of Boring @ 20 ft

WELL LOG (PID/TPHD) G:\OA8300-1\GINTGINT.GPJ DEFAULT.GDT 5/17/01

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-3
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	27-Oct-99
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	27-Oct-99
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	M. Gaffney	**DEPTH TO WATER (First Encountered)**	16.0 ft (27-Oct-99) ▽
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand Augered to 5 feet		

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.5	
								Silty SAND; gray brown; dry; 5% clay, 15% silt, 65% sand, 10% gravel; high estimated permeability.	0.5	
									0.5	
			SB-3 5.0		5	SM		@ 5'-brown; 5% clay, 30% silt, 60% sand, 5% gravel; medium estimated permeability.		
								@ 9'- gray; dry; 20% silt, 80% sand; low estimated permeability.		Portland Type I/II
			SB-3 10.0		10					
			SB-3 15.0		15	SP		**Gravelly SAND**; (ML); brown; dry; 10% silt, 60% sand, 30% gravel; medium estimated permeability. ▽	15.0	
					20				20.0	Bottom of Boring @ 20 ft

WELL LOG (PID/TPHD) G:\OA8300-1\GINT\GINT.GPJ DEFAULT.GDT 5/17/01

ATTACHMENT B

Certified Laboratory Analytical Reports

KIFF ANALYTICAL LLC

Report Number : 19326
Date : 03/02/2001

Troy Buggle
Cambria Environmental Technology, Inc.
1144 65th Street, Suite B
Oakland, CA 94608

Subject : 13 Soil Samples
Project Name : 2120 Montana Street, Oakland, CA
Project Number : 243-0733
P.O. Number : Incident #98995740

Dear Mr. Buggle,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 19326
Date : 03/02/2001

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **MW-1-5.5** Matrix : Soil Lab Number : 19326-01
Sample Date :02/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**0.12**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	03/01/2001

Sample : **MW-1-10.0** Matrix : Soil Lab Number : 19326-02
Sample Date :02/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.066**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**0.12**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**0.14**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**2.4**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**4.7**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	96.3		% Recovery	EPA 8260B	03/01/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 19326
Date : 03/02/2001

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **MW-1-15.5** Matrix : Soil Lab Number : 19326-03
Sample Date :02/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.014**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**0.041**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**0.024**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**0.098**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**5.0**	0.020	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	03/01/2001

Sample : **MW-1-20.5** Matrix : Soil Lab Number : 19326-04
Sample Date :02/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.023**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**0.16**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**0.037**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**0.17**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**2.0**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**1.5**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	03/01/2001

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 19326
Date : 03/02/2001

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **MW-1-24.0** Matrix : Soil Lab Number : 19326-05
Sample Date :02/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.024**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**0.14**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**0.050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**0.27**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**0.51**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**4.4**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	03/01/2001

Sample : **MW-2-5.5** Matrix : Soil Lab Number : 19326-06
Sample Date :02/21/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	03/01/2001

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 19326
Date : 03/02/2001

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **MW-2-10.5** Matrix : Soil Lab Number : 19326-07
Sample Date :02/21/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	03/01/2001

Sample : **MW-2-15.5** Matrix : Soil Lab Number : 19326-08
Sample Date :02/21/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**5.2**	0.050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	95.5		% Recovery	EPA 8260B	03/01/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 19326
Date : 03/02/2001

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **MW-2-21.0** Matrix : Soil Lab Number : 19326-09
Sample Date :02/21/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.028**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**0.012**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**0.080**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**0.021**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**1.3**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**10**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	03/01/2001

Sample : **MW-3-5.5** Matrix : Soil Lab Number : 19326-10
Sample Date :02/21/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	03/01/2001

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 19326
Date : 03/02/2001

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **MW-3-10.5** Matrix : Soil Lab Number : 19326-11
Sample Date :02/21/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	96.3		% Recovery	EPA 8260B	03/01/2001

Sample : **MW-3-15.5** Matrix : Soil Lab Number : 19326-12
Sample Date :02/21/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	03/01/2001

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 19326
Date : 03/02/2001

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **MW-3-20.5** Matrix : Soil Lab Number : 19326-13
Sample Date :02/21/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/2001
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/2001
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	03/01/2001
4-Bromofluorobenzene (Surr)	97.0		% Recovery	EPA 8260B	03/01/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 19326

Date : 03/02/01

Project Name : **2120 Montana Street,**

Project Number : **243-0733**

Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/01
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/01
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/01
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/01
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	03/01/01
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	03/01/01
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	03/01/01
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	03/01/01

Approved By: Joel Kiff

Report Number : 19326

Date : 03/02/01

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2120 Montana Street,**

Project Number : **243-0733**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	19326-06	<0.0050	0.0487	0.0497	0.0441	0.0460	mg/Kg	EPA 8260B	03/01/01	90.6	92.7	2.29	70-130	25
Toluene	19326-06	<0.0050	0.0487	0.0497	0.0443	0.0463	mg/Kg	EPA 8260B	03/01/01	90.9	93.2	2.56	70-130	25
Tert-Butanol	19326-06	<0.0050	0.0487	0.0497	0.0535	0.0530	mg/Kg	EPA 8260B	03/01/01	110	107	2.75	70-130	25
Methyl-t-Butyl Ether	19326-06	<0.0050	0.0487	0.0497	0.0452	0.0469	mg/Kg	EPA 8260B	03/01/01	92.8	94.4	1.77	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 19326

Date : 03/02/01

QC Report : Laboratory Control Sample (LCS)

Project Name : **2120 Montana Street,**

Project Number : **243-0733**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0392	mg/Kg	EPA 8260B	03/01/01	100	70-130
Toluene	0.0392	mg/Kg	EPA 8260B	03/01/01	98.6	70-130
Tert-Butanol	0.196	mg/Kg	EPA 8260B	03/01/01	107	70-130
Methyl-t-Butyl Ether	0.0392	mg/Kg	EPA 8260B	03/01/01	101	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

EQUIVA Services LLC Chain Of Custody Record 19326

Equiva Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING

☑ TECHNICAL SERVICES Karen Petryna

☐ CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY): 98099570

SAP or CRMT NUMBER (TS/CRMT):

DATE: 2/22/01

PAGE: 1 of 1

CONSULTANT COMPANY: Cambria Environmental Technology Inc.

ADDRESS: 1144 65th Street, Suite B

CITY: Oakland, CA, 94608

TELEPHONE: (510) 420-0700 FAX: (510) 420-9170 E-MAIL:

SITE ADDRESS (Street and City): 2120 Montana Street, Oakland, CA

PROJECT CONTACT (Report to): Troy Buggle (510)420-3336

CONSULTANT PROJECT NO.: 243-0733

SAMPLER NAME(S) (Print): James Loetterle

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):

☐ 10 DAYS ☑ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST ___ HIGHEST per BORING __ ALL X

SPECIAL INSTRUCTIONS OR NOTES:

TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)					
	MW-1-5.5	2/20/01	1:51	soil	1	x		x																		1
	MW-1-10.0	2/20/01	1:55	soil	1	x		x																		2
	MW-1-15.5	2/20/01	2:00	soil	1	x		x																		3
	MW-1-20.5	2/20/01	2:11	soil	1	x		x																		4
	MW-1-24.0	2/20/01	2:13	soil	1	x		x																		5
	MW-2-5.5	2/21/01	9:21	soil	1	x		x																		6
	MW-2-10.5	2/21/01	9:28	soil	1	x		x																		7
	MW-2-15.5	2/21/01	9:34	soil	1	x		x																		8
	MW-2-21.0	2/21/01	9:44	soil	1	x		x																		9
	MW-3-5.5	2/21/01	1:19	soil	1	x		x																		10
	MW-3-10.5	2/21/01	1:21	soil	1	x		x																		11
	MW-3-15.5	2/21/01	1:30	soil	1	x		x																		12
	MW-3-20.5	2/21/01	1:34	soil	1	x		x																		13

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
2/22/01			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) Hank Burn Analytical	Date: 022201	Time: 1120

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/23/00 Revision

KIFF ANALYTICAL LLC

Report Number : 19327
Date : 3/1/01

Troy Buggle
Cambria Environmental Technology, Inc.
1144 65th Street, Suite B
Oakland, CA 94608

Subject : 5 Soil Samples
Project Name : 2120 Montana Street, Oakland, CA
Project Number : 243-0733
P.O. Number : Incident # 98995740

Dear Mr. Buggle,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 19327
Date : 3/1/01

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **SP-1** Matrix : Soil Lab Number : 19327-01
Sample Date :2/21/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	2/25/01
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	2/25/01

Sample : **SP-2** Matrix : Soil Lab Number : 19327-02
Sample Date :2/21/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	2/24/01
4-Bromofluorobenzene (Surr)	96.9		% Recovery	EPA 8260B	2/24/01

Sample : **SP-3** Matrix : Soil Lab Number : 19327-03
Sample Date :2/21/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**1800**	20	mg/Kg	EPA 8260B	2/27/01
4-Bromofluorobenzene (Surr)	94.0		% Recovery	EPA 8260B	2/27/01

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 19327
Date : 3/1/01

Project Name : **2120 Montana Street, Oakland, CA**
Project Number : **243-0733**

Sample : **SP-4** Matrix : Soil Lab Number : 19327-04
Sample Date :2/21/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	2/26/01
4-Bromofluorobenzene (Surr)	95.3		% Recovery	EPA 8260B	2/26/01

Sample : **SP-(1-4)** Matrix : Soil Lab Number : 19327-05
Sample Date :2/21/01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.091**	0.0050	mg/Kg	EPA 8260B	2/25/01
Toluene	**0.43**	0.050	mg/Kg	EPA 8260B	2/25/01
Ethylbenzene	**0.50**	0.050	mg/Kg	EPA 8260B	2/25/01
Total Xylenes	**3.0**	0.050	mg/Kg	EPA 8260B	2/25/01
Methyl-t-butyl ether	**< 0.050**	0.050	mg/Kg	EPA 8260B	2/25/01
Toluene - d8 (Surr)	71.7		% Recovery	EPA 8260B	2/25/01
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	2/25/01

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 19327

Date : 3/1/01

Project Name : **2120 Montana Street,**

Project Number : **243-0733**

Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	2/26/01
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	2/26/01
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	2/26/01
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	2/26/01
Methyl-t-butyl ether	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	2/26/01
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	2/26/01
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	2/26/01
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	2/26/01
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	2/26/01

Approved By: Joel Kiff

Report Number : 19327

Date : 3/1/01

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2120 Montana Street,**

Project Number : **243-0733**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	19319-01	<0.0050	0.0469	0.0470	0.0300	0.0356	mg/Kg	EPA 8260B	2/25/01	64.0	75.8	16.9	70-130	25
Toluene	19319-01	<0.0050	0.0469	0.0470	0.0304	0.0355	mg/Kg	EPA 8260B	2/25/01	64.8	75.5	15.1	70-130	25
Tert-Butanol	19319-01	<0.0050	0.0469	0.0470	0.0548	0.0358	mg/Kg	EPA 8260B	2/25/01	117	76.1	42.2	70-130	25
Methyl-t-Butyl Ether	19319-01	<0.0050	0.0469	0.0470	0.0370	0.0371	mg/Kg	EPA 8260B	2/25/01	78.9	78.9	0.0507	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 19327

Date : 3/1/01

QC Report : Laboratory Control Sample (LCS)

Project Name : **2120 Montana Street,**

Project Number : **243-0733**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0366	mg/Kg	EPA 8260B	2/25/01	90.6	70-130
Toluene	0.0366	mg/Kg	EPA 8260B	2/25/01	88.8	70-130
Tert-Butanol	0.183	mg/Kg	EPA 8260B	2/25/01	112	70-130
Methyl-t-Butyl Ether	0.0366	mg/Kg	EPA 8260B	2/25/01	93.3	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

March 02 , 2001

Joel Kiff
Kiff Analytical
720 Olive Drive, Suite D
Davis, CA 95616
RE: Equiva 2120 Montana St., Oakland, CA / S102340

Enclosed are the results of analyses for samples received by the laboratory on 02/23/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra R Hanson
for

Lito Diaz
Laboratory Director

CA ELAP Certificate Number 1624

Sequoia Analytical

819 Striker Avenue, Suite 8
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www.sequoialabs.com

Kiff Analytical	Project: Equiva 2120 Montana St., Oakland, CA	
720 Olive Drive, Suite D	Project Number: N/A	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	03/02/01 17:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-(1-4)	S102340-01	Soil	02/21/01 00:00	02/23/01 16:15

Sequoia Analytical

819 Striker Avenue, Suite 8
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FAX (916) 921-0100
www.sequoialabs.com

Kiff Analytical	Project: Equiva 2120 Montana St., Oakland, CA	
720 Olive Drive, Suite D	Project Number: N/A	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	03/02/01 17:04

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-(1-4) (S102340-01) Soil Sampled: 02/21/01 00:00 Received: 02/23/01 16:15									
Lead	ND	25.0	mg/kg	10	1020277	02/27/01	02/28/01	EPA 6010A	

Sequoia Analytical

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(916) 921-9600
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Kiff Analytical	Project: Equiva 2120 Montana St., Oakland, CA	
720 Olive Drive, Suite D	Project Number: N/A	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	03/02/01 17:04

Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1020277 - EPA 3010A										
Blank (1020277-BLK1)				Prepared: 02/27/01	Analyzed: 02/28/01					
Lead	ND	2.50	mg/kg							
LCS (1020277-BS1)				Prepared: 02/27/01	Analyzed: 02/28/01					
Lead	50.5	2.50	mg/kg	50.0		101	80-120			
Matrix Spike (1020277-MS1)	**Source: S102335-01**			Prepared: 02/27/01	Analyzed: 02/28/01					
Lead	42.3	10.0	mg/kg	50.0	ND	78.8	80-120			O-02
Matrix Spike Dup (1020277-MSD1)	**Source: S102335-01**			Prepared: 02/27/01	Analyzed: 02/28/01					
Lead	38.4	10.0	mg/kg	50.0	ND	71.0	80-120	9.67	20	O-02

Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
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FAX (916) 921-0100
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Kiff Analytical	Project: Equiva 2120 Montana St., Oakland, CA	
720 Olive Drive, Suite D	Project Number: N/A	**Reported:**
Davis CA, 95616	Project Manager: *Joel Kiff*	03/02/01 17:04

Notes and Definitions

O-02	Due to matrix interference, the sample cannot be accurately quantitated. The reported result is qualitative.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

KIFF ANALYTICAL SUBCONTRACT FORM

Please mail results to :

JOEL KIFF
KIFF ANALYTICAL
720 OLIVE DRIVE, SUITE D
DAVIS, CA 95616

Please fax to :

530-297-4803

Subcontract Lab: **Sequoia**
819 Striker Ave, Suite 8
Sacramento, CA 95834

916-921-9600

Account No. :

PROJECT NAME : 2120 Montana Street, Oakland, CA
PROJECT NUMBER: 243-0733

Sample	Matrix	Sampled	Tests	Due	Container
SP-(1-4)	SO	02/21/2001	Lead - ICAP	03/01/2001	

S102340-01

* Please see attachment for required testing. MEB 022301

Rcvd 20°

Relinquished by : Osama Moatamri / KIFF Analytical Date/Time: 022301/1615 Received by: Monica Goggen 2/23/01 16:15

Relinquished by : _____ Date/Time: _____ Received by: _____

Relinquished by : _____ Date/Time: _____ Received by: _____

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

EQUIVA Services LLC Chain Of Custody Record 19327

Equiva Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING

☑ TECHNICAL SERVICES Karen Petryna

☐ CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 0

SAP or CRMT NUMBER (TS/CRMT):

DATE: 2/22/01

PAGE: 1 of 1

CONSULTANT COMPANY: Cambria Environmental Technology Inc.

ADDRESS: 1144 65th Street, Suite B

CITY: Oakland, CA, 94608

TELEPHONE: (510) 420-0700 FAX: (510) 420-9170 E-MAIL:

SITE ADDRESS (Street and City): 2120 Montana Street, Oakland, CA

PROJECT CONTACT (Report to): Troy Buggle (510)420-3336

CONSULTANT PROJECT NO.: 243-0733

SAMPLER NAME(S) (Print): James Loetterle

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):

☐ 10 DAYS ☑ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

See Attached Sheet. TPH required for all samples. All other tests to be run on compo

Metals - TTLC lead. If TTLC >=13 mg/kg then Organic Lead. If TTLC >= 50 mg/kg t

STLC lead.

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify) _see attached sheet	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B--)					FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	SP-(1-4)	2/21/01		soil	4	x		x							x											0105

Relinquished by: (Signature) 2/22/01 Received by: (Signature) Date: Time:

Relinquished by: (Signature) Received by: (Signature) Date: Time:

Relinquished by: (Signature) Received by: (Signature) Analytical Date: 022201 Time: 1120

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/23/00 Revision

19327

ISSUED DATE: 05/23/97
CANCELS ISSUE: 03/05/97
ISSUED BY: RLG

MATERIAL: MINIMUM SOIL ANALYSIS FOR UST SOIL WITH GASOLINE OR DIESEL CONTAMINATION

USE FOR ARIZONA , CALIFORNIA AND NEVADA WASTE ONLY!!!

NOTE: ANALYSES ARE BASED ON CHARACTERIZATION MINIMUM. YOU MUST BE SURE THAT THE FACILITY WILL TAKE THE FOLLOWING AS ACCEPTANCE. FURTHER ANALYSIS MAY BE REQUIRED FOR CHARACTERIZATION UPON REVIEW BY THE WASTE TEAM MEMBER OR TO MEET DISPOSAL SITE REQUIREMENTS. IF THE MATERIAL IS RETURNED TO CONSULTANT, COPIES OF ALL TRANSPORTATION DOCUMENTS MUST BE SENT TO THE WASTE DISPOSAL COORDINATOR FOR RECORDING WHEN PROJECT IS COMPLETE.

MINIMUM REQUIRED TESTING

Note: If material is to be sent to a BFI facility EPA METHOD 8010 must be run IN ADDITION to the following analysis prior to requesting profile approval:

TPH = TOTAL PETROLEUM HYDROCARBONS, DHS GC-FID MOD 8015 GASOLINE OR DIESEL AS REQUIRED.

BTXE = EPA 8020 + MTBE

CAM METALS = TTLC LEAD, STLC LEAD IF TTLC => 50 MG/KG AND/OR ORGANIC LEAD IF TTLC => 13 MG/KG

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES WITH GREATER THAN 5000 PPM TPH. COMPOSITE A MAXIMUM OF 4 SAMPLES.

AQUATIC BIOASSAY (FISH TOX) = PART 800 OF "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)"

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

- 8015/8020 TO BE BILLED AS "COMBO" WITHOUT EXCEPTION
- TPH REQUIRED FOR ALL SAMPLES.
- ALL OTHER TESTS REQUIRED TO BE RUN ON COMPOSITE(S). MAXIMUM 4 SAMPLES PER COMPOSITE.
- STLC REQUIRED FOR METALS WITH TTLC VALUE 10 X STLC MAXIMUM.
- ORGANIC ANALYSIS REQUIRED FOR TTLC LEAD OF 13 MG/KG OR GREATER.
- LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS.
- MAIL OR FAX ALL ANALYSIS TO PERSON REQUESTING ANALYSIS.

ATTACHMENT C

Well Boring Logs

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-1
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	20-Feb-01
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	20-Feb-01
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	160.16
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	159.59 ft
BORING DIAMETER	8"	**SCREENED INTERVAL**	13 to 28 ft bgs
LOGGED BY	J. Loetterle	**DEPTH TO WATER (First Encountered)**	19.0 ft (20-Feb-01)
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	11.5 ft (20-Feb-01)

REMARKS Hand augered to 5'. Located at north end of station, 45' from the curb, and 10' from fence.

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.7	
								FILL; dark brown; damp; 5% clay, 10% silt, 80% fine to coarse sand; no plasticity.		
			MW-1 5.5		5	ML		**Sandy SILT** (ML); reddish brown; medium stiffness; damp; 10% clay, 50% silt, 40% fine sand; low plasticity; contains rootlets.	5.0	
			MW-1 10.0		10	SM		**Silty SAND** (SM); grey/reddish brown; loose; damp; 10% clay, 30% silt, 60% fine sand; low plasticity; contains organic fragments. ▼	10.0	Bentonite Seal
			MW-1 15.5		15	SP		**SAND** (SP); reddish brown; very loose; wet; 10% clay, 10% silt, 80% fine sand; low plasticity. ▽	15.0	Monterey Sand #2/12
			MW-1 20.5		20	SC		**Clayey SAND** (SC); grey; very loose; wet; 15% clay, 5% silt, 80% fine to medium sand; medium plasticity.	20.0	2"-diam., 0.010" Slotted Schedule 40 PVC
			MW-1 24.0		25			@ 25 fbg - grey/brown; contains faint petroleum odor.	28.0	Bottom of Boring @ 28 ft

WELL LOG (PID/TPHD) G:\OA8300-1\GINT\GINT.GPJ DEFAULT.GDT 5/17/01

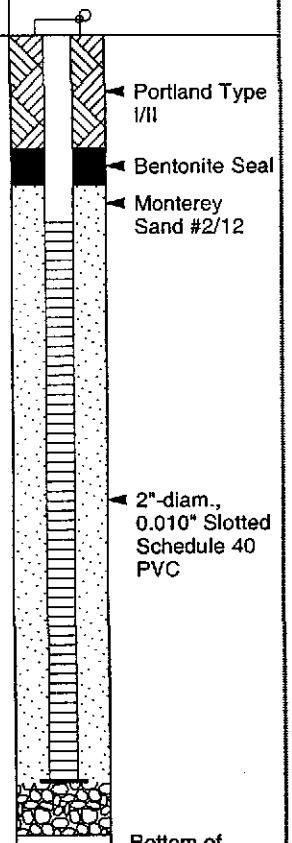
Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	21-Feb-01
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	21-Feb-01
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	158.29
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	158.03 ft
BORING DIAMETER	8"	**SCREENED INTERVAL**	5 to 20 ft bgs
LOGGED BY	J. Loetterle	**DEPTH TO WATER (First Encountered)**	10.0 ft (21-Feb-01) ▽
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA ▼

REMARKS Hand augered to 5'. Located in the middle of the west bound lane of Montana Street, approximately 5' east of the property line.

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								CONCRETE	0.7
								FILL; dark brown; damp; 5% clay, 10% silt, 80% fine to coarse sand; no plasticity.	4.0
			MW-2 5.5		5	SM		**Silty SAND** (SM); light brown; damp; 5% clay 20% silt, 75% fine to medium sand; no plasticity.	10.0 ▽
			MW-2 10.5		10	ML		**Sandy SILT** (ML); reddish brown; medium stiffness; damp; 10% clay, 50% silt, 40% fine sand; low plasticity; contains rootlets.	15.0
			MW-2 15.5		15	SM		**Silty SAND** (SM); grey/reddish brown; loose; damp; 10% clay, 30% silt, 60% fine sand; low plasticity; contains organic fragments.	20.0
			MW-2 21.0		20	SC		**Clayey SAND** (SC); grey; very loose; wet; 15% clay, 5% silt, 80% fine to medium sand; medium plasticity.	21.5



WELL LOG (PID/TPHD) G:\OA8300-1\GINT\GINT.GPJ DEFAULT.GDT 5/17/01

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-3
JOB/SITE NAME	2120 Montana Street, Oakland	**DRILLING STARTED**	21-Feb-01
LOCATION	2120 Montana Street, Oakland	**DRILLING COMPLETED**	21-Feb-01
PROJECT NUMBER	242-0733	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	161.61
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	161.13 ft
BORING DIAMETER	8"	**SCREENED INTERVAL**	5 to 20 ft bgs
LOGGED BY	J. Loetterle	**DEPTH TO WATER (First Encountered)**	16.6 ft (21-Feb-01) ▽
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA ▼

REMARKS Hand augered to 5'. Located at the east end of the station, approximately 18' north of the eastern dispenser.

PID (ppm)	TPHd (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								CONCRETE	0.7
								FILL; dark brown; damp; 20% clay, 30% silt, 50% sand; medium plasticity.	2.0
						SC		**Clayey SAND** (SC); light brown; damp; loose; 15% clay, 15% silt, 60% fine sand, 10% fine to coarse gravel. @ 3 fbg - brown; 20% clay, 10% silt, 60% fine sand, 10% fine to coarse gravel.	4.0
			MW-3 5.5		5	SM		**Silty SAND** (SM); brown; damp; loose; 10% clay, 30% silt, 60% fine sand; medium plasticity; contains organic fragments.	10.0
			MW-3 10.5		10			**Clayey SAND** (SC); olive brown; damp; medium dense; 20% clay, 15% silt, 65% fine to coarse, subrounded sand; medium plasticity.	
			MW-3 15.5		15	SC		@ 15 fbg - reddish brown; loose; moist; 20% clay, 10% silt, 70% fine to medium, subrounded sand; medium plasticity. ▽	
			MW-3 20.5		20			@ 20 fbg - grey; wet.	21.5

WELL DIAGRAM: Portland Type I/II; Bentonite Seal; Monterey Sand #2/12; 2"-diam., 0.010" Slotted Schedule 40 PVC; Bottom of Boring @ 21.5 ft

WELL LOG (PID/TPHD) G:\OA8300-1\GINT\GINT.GPJ DEFAULT.GDT 5/17/01

ATTACHMENT D

Standard Field Procedures for Monitoring Wells

CAMBRIA

STANDARD FIELD PROCEDURES FOR MONITORING WELLS

This document describes Cambria Environmental Technology's standard field methods for drilling, installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Well Construction and Surveying

Groundwater monitoring wells are installed in soil borings to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet 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 feet 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 feet 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 groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater 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 groundwater are extracted and the sediment volume in the groundwater 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.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, 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.

ATTACHMENT E

Permits

City of Oakland
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

ENM1 01015

PERMIT NUMBER X0100425		SITE ADDRESS/LOCATION 2120 MONTANA ST.
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS		CITY BUSINESS TAX #

ATTENTION:

1) State law requires that the contractor/owner call *Underground Service Alert (USA)* two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1 (800) 642-2444. UNDERGROUND SERVICE ALERT (USA) #: ____________

2) **48 hours prior to starting work, YOU MUST CALL (510) 238-3651 TO SCHEDULE AN INSPECTION.**

1:00 PM

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. ____________, B&PC for this reason ____________

WORKER'S COMPENSATION

☐ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # ____________ Company Name ____________

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

2-16-01

Signature of Permittee ☐ Agent for ☐ Contractor ☐ Owner Date

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTIONS (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY		DATE ISSUED	

CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA, SUITE 2340 • OAKLAND, CALIFORNIA 94612-2031

Community and Economic Development Agency
Building Services Division

(510) 238-3102
FAX (510) 238-2959
TDD (510) 238-6312

February 8, 2001

Cambria Environmental
1144 - 65th Street, Suite B
Oakland, CA 94608
(ATTN: Shannon Couch)

RE: MINOR ENCROACHMENT PERMIT FOR 2120 MONTANA STREET.

Dear Miss Couch:

Enclosed is a Minor Encroachment permit allowing you to encroach into the public right-of-way of Montana Street with one monitoring well. Before the permit will become effective, the person(s) having the legal authority to do so, must sign and properly notarize the document with a notary acknowledgement slip(s) attached, and returned to this office to the attention of Jing Wong for recordation.

If you have any questions, please call Jing Wong at 238-6314 any workday from 8:00 AM to 4:00 PM.

Sincerely,

Lourdes Barrozo

LOURDES BARROZO
Engineering Services Supervisor

Recording Requested by:
CITY OF OAKLAND

When Recorded Mail to:
City of Oakland
Community & Economic
Development Agency
Building Services Division,
Engineering Information
250 Frank H. Ogawa Plaza, 2nd Floor
Oakland, CA 94612

TAX ROLL PARCEL NUMBER
(ASSESSOR'S REFERENCE NUMBER)

026	0834	022	01
MAP	BLOCK	PARCEL	SUB

Address: 2120 MONTANA STREET

Space Above for Recorder's Use Only

MINOR ENCROACHMENT PERMIT AND AGREEMENT

EQUILON ENTERPRISES LLC, the owners of certain real property described in the Corporate Grant Deed number 98-0252223, dated July 17, 1998 commonly known as 2120 Montana Street, Oakland, Alameda County, California is hereby granted a Conditional Revocable Permit to encroach into the public right-of-way of Montana Street to install a monitoring well. The location of said encroachment shall be as delineated in Exhibit 'A' attached hereto and made a part hereof.

The permittee agrees to comply with and be bound by the conditions for granting an Encroachment Permit attached hereto and made a part hereof.

This agreement shall be binding upon the undersigned, the present owners of the property described above, and their successors in interest thereof.

In witness whereof, I have set my signature this 14th day of February, 2001.

SHANNAN COUCH

NAME:

TITLE: STAFF GEOLOGIST

Below for Official Use Only

CITY OF OAKLAND

Dated: _____

By: _____
CALVIN N. WONG
Director of Building Services
For:
WILLIAM E. CLAGGETT
Executive Director,
Community & Economic Development Agency

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Alameda } ss.

On Feb. 14, 2001 (Date), before me, Doris Demirjian (Name and Title of Officer (e.g., "Jane Doe, Notary Public")),

personally appeared Shannon Couch (Name(s) of Signer(s)),

☑ personally known to me
☐ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

DORIS DEMIRJIAN
Commission # 1288542
Notary Public - California
Alameda County
My Comm. Expires Dec 25, 2004

Place Notary Seal Above

Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Minor Encroachment Permit and Agreement

Document Date: Feb. 14, 2001 Number of Pages: 5

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer

Signer's Name: _____

☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

TO: *Cambria Environmental*
Address: *1144 - 65th Street, Suite B*
Oakland, CA 94608
(APN : 026-0834-022-01)

RE: Minor Encroachment Permit for installation of a monitoring well adjacent to 2120 Montana Street.

CONDITIONS FOR GRANTING A MINOR ENCROACHMENT PERMIT

1. That this permit shall be revocable at the pleasure of the *Director of Building Services.*

2. That the permittee, by the acceptance, either expressed or implied, of the minor encroachment permit hereby disclaims any right, title, or interest in or to any portion of the public street area, and agrees that said temporary use of said area does not constitute an abandonment on the part of the City of Oakland of any of its rights for street purposes and otherwise.

3. The permittee shall maintain in force and effect at all times that said encroachment occupies said public area, good and sufficient public liability insurance in the amount of $300,000 for each occurrence, and property damage insurance in the amount of $50,000 for each occurrence, both including contractual liability, insuring the City of Oakland, its officers and employees against any and all claims arising out of the existence of said encroachment in said sidewalk area, as respects liabilities assumed under this permit,and that a certificate of such insurance and subsequent notices of the renewal thereof, shall be filed with the *Director of Building Services* of the City of Oakland, and that such certificate shall state that said insurance coverage shall not be canceled or be permitted to lapse without thirty (30) days written notice to said *Director of Building Services*. The permittee also agrees that the City may review the type and amount of insurance required of the permittee every five (5) years and may require the permittee to increase the amount of and/or change the type of insurance coverage required.

4. That the permittee, by the acceptance, either expressed or implied, of this revocable permit shall be solely and fully responsible for the repair or replacement of any portion or all of said improvements in the event that said improvements shall have failed or have been damaged to the extent of creating a menace or of becoming a hazard to the safety of the general public; and that the permittee shall be liable for the expenses connected therewith.

5. That the permittee is aware that the proposed work is out of the ordinary and does not comply with City standard installations. Permittee is also aware that the City has to conduct work in the public right-of-way which may include, but may not be limited to, excavation, trenching, and relocation of its facilities, all of which may damage encroachments. Permittee is further aware that the City takes no responsibility for repair or replacement of encroachments which are damaged by the City or its contractors. That the permittee, by the acceptance, either expressed or implied, of the encroachment permit hereby agrees that upon receipt of notification from the City, permittee shall immediately repair or replace within 30 days all damages to permittee's encroachments within the public right-of-way which are damaged by the City or its contractors in carrying out the City's work. Permittee agrees to employ interim measures required and approved by the City until repair or replacement work is completed.

6. That upon the termination of the permission herein granted, permittee shall immediately remove said encroachment from the street area, and any damage resulting therefrom shall be repaired to the satisfaction of the *Director of Building Services.*

7. That the permittee shall file with the City of Oakland for recordation a Minor Encroachment Permit and Agreement, and shall be bound by and comply with all the terms and conditions of said permit.

8. That said permittee shall obtain an excavation permit prior to construction and a separate excavation permit prior to the removal of the monitoring well.

9. That said permittee shall provide to the City of Oakland an AS BUILT plan showing the actual location of the *monitoring well.* And the results of all data collected from the monitoring well.

10. That said permittee shall remove the monitoring well and repair any damage to the street area in accordance with City standards two (2) years after construction or as soon as monitoring is complete.

11. That said permittee shall notify the *Community & Economic Development Agency, Building Services Division* after the *monitoring well* is removed and the street area restored to initiate the procedure to rescind the minor encroachment permit.

12. That the monitoring well cover installed within the sidewalk area shall have a skid-proof surface.

13. That the monitoring well casting and cover shall be iron and shall meet H-20 load rating. The cover shall be secured with a minimum of two stainless steel bolts. Bolts and cover shall be mounted flush with the surrounding surface. For sidewalk installations, a precast concrete utility box and non-skid cover may be needed in conjunction with the bolted cast iron cover with City approval.

14. That the permittee acknowledges that the City makes no representations or warranties as to the conditions beneath said encroachment. By accepting this revocable permit, permittee agrees that it will use the encroachment area at its own risk, is responsible for the proper coordination of its activities with all other permittees, underground utilities, contractors, or workmen operating, within the encroachment area and for the safety of itself and any of its personnel in connection with its entry under this revocable permit.

15. The permittee acknowledges that the City is unaware of the existence of any hazardous substances beneath the encroachment area, and permittee hereby waives and fully releases and forever discharges the City and its officers, directors, employees, agents, servants, representatives, assigns and successors from any and all claims, demands, liabilities, damages, actions, causes of action, penalties, fines, liens, judgements, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs), whether direct or indirect, known or unknown, foreseen or unforeseen, that may arise out of or in any way connected with the physical condition or required remediation of the excavation area of any law or regulation applicable thereto, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. Sections 9601 et seq.), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. Section 466 et seq.), the Safe Drinking Water Act (14 U.S.C. Sections 1401, 1450), the Hazardous Waste Control Law (California Health and Safety Code Sections 25100 et seq.), the Porter-Cologne Water Quality Control Act (California Health and Safety Code Section 13000 et seq.), the Hazardous Substance Account Act (California Health and Safety Code Sections 253000 et seq.), and the Safe Drinking Water and Toxic Enforcement Act (California Health and Safety Code Section 25249.5 et seq.).

16. Permittee further acknowledges that it understands and agrees that it hereby expressly waives all rights and benefits which it now has or in the future may have, under and by virtue of the terms of California Civil Code Section 1542, which reads as follows: "A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR."

17. Permittee recognizes that by waiving the provisions of this section, permittee will not be able to make any claims for damages that may exist, and to which, if known, would materially affect its decision to agree to

these encroachment terms and conditions, regardless of whether permittee's lack of knowledge is the result of ignorance, oversight, error, negligence, or any other cause.

18. (a) That the permittee, by the acceptance of this revocable permit, agrees and promises to indemnify, defend, and hold harmless the City of Oakland, its officers, agents, and employees, to the maximum extent permitted by law, from any and all claims, demands, liabilities damages, actions, causes of action, penalties, fines, liens, judgments, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs; collectively referred to as "claims", whether direct or indirect, known or unknown, foreseen or unforeseen, to the extent that such claims were either (1) caused by the permittee, its agents, employees, contractors or representatives, or, (2) in the case of environmental contamination, the claim is a result of environmental contamination that emanates or emanated from 2120 Montana Street, Oakland, California site, or was otherwise caused by the permittee, its agents, employees, contractors or representatives.

(b) That, if any contamination is discovered below or in the immediate vicinity of the encroachment, and the contaminants found are of the type used, housed, stored, processed or sold on or from 2120 Montana Street, Oakland, California site, such shall amount to a rebuttable presumption that the contamination below, or in the immediate vicinity of, the encroachment was caused by the permittee, its agents, employees, contractors or representatives.

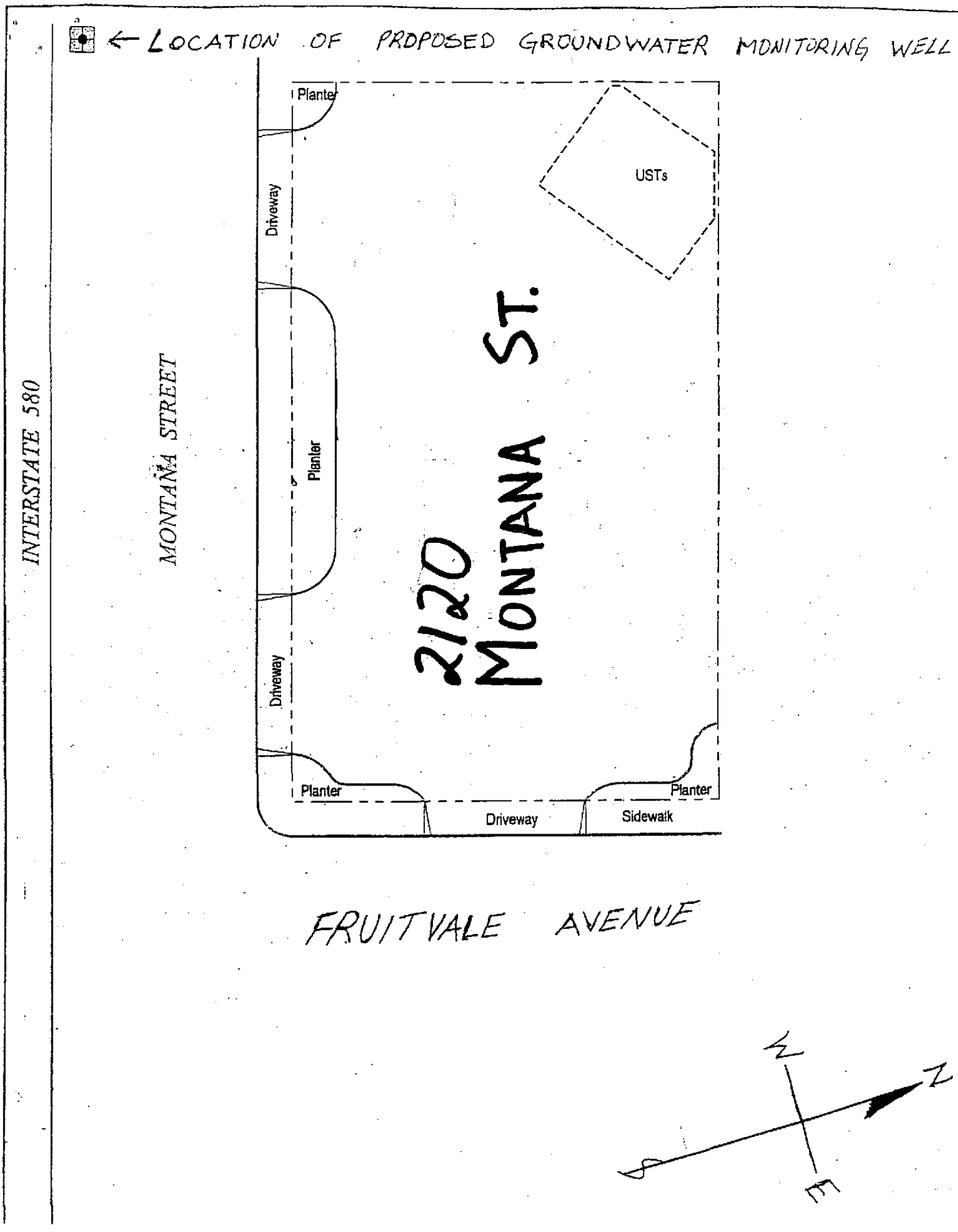
(c) That the permittee shall comply with all applicable federal, state, county and local laws, rules, and regulations governing the installation, maintenance, operation and abatement of the encroachment.

19. That the permittee hereby does remise, release, and forever discharge, and agree to defend, indemnify, and save harmless, the City, its officers, agents and employees and each of them, from any and all actions, claims, and demands of whatsoever kind or nature, and andy damage, loss or injury which may be sustained directly or by the undersigned and any other person or persons, and arising out of, or by reason of the occupation of said public property, and the future removal of the above-mentioned encroachment.

20. That the herein above conditions shall be binding upon the permittee and the successive owners and assigns thereof.

21. That said Minor Encroachment Permit and Agreement shall take effect when all the conditions hereinabove set forth shall have been complied with to the satisfaction of the *Director of Building Services*, and shall become null and void upon the failure of the permittee to comply with all conditions.

EXHIBIT 'A'


← LOCATION OF PROPOSED GROUNDWATER MONITORING WELL
INTERSTATE 580
MONTANA STREET
Planter
Driveway
USTs
Planter
Driveway
2120 MONTANA ST.
Planter
Planter
Driveway
Sidewalk
FRUITVALE AVENUE
N
E
S

ATTACHMENT F

Blaine's Groundwater Monitoring Report

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

April 27, 2001

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

First Quarter 2001 Groundwater Monitoring at
Shell-branded Service Station
2120 Montana Street
Oakland, CA

Monitoring performed on March 19 and 23, 2001

Groundwater Monitoring Report **010323-X-4**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/jt

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
2120 Montana Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	[redacted] (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	[redacted] 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	03/19/3[redacted]	NA	NA	NA	NA	NA	NA	NA	159.59	12.14	147.45
[redacted]	03/23/2001	16,600	[redacted]	1,720	407	2,330	NA	[redacted]	159.59	12.25	147.34
MW-2	03/19/[redacted]	NA	NA	NA	NA	NA	NA	NA	158.03	11.60	146.43
[redacted]	[redacted]	4,450	[redacted]	41.0	62.1	63.0	NA	[redacted]	158.03	11.76	146.27
MW-3	03/19/3001	NA	NA	NA	NA	NA	NA	NA	161.13	11.42	149.71
[redacted]	[redacted]	<50.0	[redacted]	<0.500	<0.500	<0.500	NA	[redacted]	161.13	11.42	149.71

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
GW = Groundwater
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit

Notes:
Survey data provided by Cambria Environmental Technology, May 2001.

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

25 April, 2001

Nick Sudano
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: 2120 Montana St., Oakland
Sequoia Report: MKC0591

Enclosed are the results of analyses for samples received by the laboratory on 03/26/01 10:19. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Smyly
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 2120 Montana St., Oakland	
1680 Rogers Avenue	Project Number: 2120 Montana St., Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/25/01 15:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MKC0591-01	Water	03/23/01 12:56	03/26/01 10:19
MW-2	MKC0591-02	Water	03/23/01 12:00	03/26/01 10:19
MW-3	MKC0591-03	Water	03/23/01 12:27	03/26/01 10:19

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Smyly, Project Manager

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 2120 Montana St., Oakland	
1680 Rogers Avenue	Project Number: 2120 Montana St., Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/25/01 15:14

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MKC0591-01) Water Sampled: 03/23/01 12:56 Received: 03/26/01 10:19									
Purgeable Hydrocarbons	**16600**	5000	ug/l	100	1C27002	03/27/01	03/27/01	DHS LUFT	P-01
Benzene	**753**	50.0	"	"	"	"	"	"	
Toluene	**1720**	50.0	"	"	"	"	"	"	
Ethylbenzene	**407**	50.0	"	"	"	"	"	"	
Xylenes (total)	**2330**	50.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*		*70-130*		"	"	"	
MW-2 (MKC0591-02) Water Sampled: 03/23/01 12:00 Received: 03/26/01 10:19									
Purgeable Hydrocarbons	**4450**	1000	ug/l	20	1C27002	03/27/01	03/27/01	DHS LUFT	P-01
Benzene	**280**	10.0	"	"	"	"	"	"	
Toluene	**41.0**	10.0	"	"	"	"	"	"	
Ethylbenzene	**62.1**	10.0	"	"	"	"	"	"	
Xylenes (total)	**63.0**	10.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.3 %*		*70-130*		"	"	"	
MW-3 (MKC0591-03) Water Sampled: 03/23/01 12:27 Received: 03/26/01 10:19									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1C27002	03/27/01	03/27/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.5 %*		*70-130*		"	"	"	

Sequoia Analytical

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Blaine Tech Services (Shell)	Project: 2120 Montana St., Oakland	
1680 Rogers Avenue	Project Number: 2120 Montana St., Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/25/01 15:14

Volatile Organic Compounds by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MKC0591-01) Water Sampled: 03/23/01 12:56 Received: 03/26/01 10:19									
tert-Butyl alcohol	ND	40000	ug/l	2000	1D04006	04/03/01	04/03/01	EPA 8260A	
Methyl tert-butyl ether	**27500**	2000	"	"	"	"	"	"	
Di-isopropyl ether	ND	2000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2000	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2000	"	"	"	"	"	"	
Ethylene dibromide	ND	2000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*		"	"	"	"	
MW-2 (MKC0591-02) Water Sampled: 03/23/01 12:00 Received: 03/26/01 10:19									
tert-Butyl alcohol	ND	20000	ug/l	1000	1D04006	04/03/01	04/03/01	EPA 8260A	
Methyl tert-butyl ether	**16600**	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	1000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1000	"	"	"	"	"	"	
Ethylene dibromide	ND	1000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.1 %*	*70-130*		"	"	"	"	
MW-3 (MKC0591-03) Water Sampled: 03/23/01 12:27 Received: 03/26/01 10:19									
tert-Butyl alcohol	ND	20.0	ug/l	1	1D04006	04/03/01	04/03/01	EPA 8260A	
Methyl tert-butyl ether	**1.26**	1.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
Ethylene dibromide	ND	1.00	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90.6 %*	*70-130*		"	"	"	"	

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Blaine Tech Services (Shell)	Project: 2120 Montana St., Oakland	
1680 Rogers Avenue	Project Number: 2120 Montana St., Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/25/01 15:14

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C27002 - EPA 5030B [P/T]										
Blank (1C27002-BLK1)				Prepared & Analyzed: 03/27/01						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Surrogate: a,a,a-Trifluorotoluene	*9.46*		"	*10.0*		*94.6*	*70-130*			
LCS (1C27002-BS1)				Prepared & Analyzed: 03/27/01						
Purgeable Hydrocarbons	115	50.0	ug/l				70-130			
Benzene	9.33	0.500	"	10.0		93.3	70-130			
Toluene	9.09	0.500	"	10.0		90.9	70-130			
Ethylbenzene	9.28	0.500	"	10.0		92.8	70-130			
Xylenes (total)	28.9	0.500	"	30.0		96.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.60*		"	*10.0*		*96.0*	*70-130*			
Matrix Spike (1C27002-MS1)		**Source: MKC0591-03**		Prepared & Analyzed: 03/27/01						
Benzene	9.47	0.500	ug/l	10.0	ND	94.7	60-140			
Toluene	9.27	0.500	"	10.0	ND	92.7	60-140			
Ethylbenzene	9.55	0.500	"	10.0	ND	95.5	60-140			
Xylenes (total)	29.3	0.500	"	30.0	ND	97.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.93*		"	*10.0*		*99.3*	*70-130*			
Matrix Spike Dup (1C27002-MSD1)		**Source: MKC0591-03**		Prepared & Analyzed: 03/27/01						
Benzene	9.34	0.500	ug/l	10.0	ND	93.4	60-140	1.38	25	
Toluene	9.10	0.500	"	10.0	ND	91.0	60-140	1.85	25	
Ethylbenzene	9.24	0.500	"	10.0	ND	92.4	60-140	3.30	25	
Xylenes (total)	28.9	0.500	"	30.0	ND	96.3	60-140	1.37	25	
Surrogate: a,a,a-Trifluorotoluene	*9.42*		"	*10.0*		*94.2*	*70-130*			

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Blaine Tech Services (Shell)	Project: 2120 Montana St., Oakland	
1680 Rogers Avenue	Project Number: 2120 Montana St., Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/25/01 15:14

Volatile Organic Compounds by EPA Method 8260A - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D04006 - EPA 5030B P/T										
Blank (1D04006-BLK1)				Prepared & Analyzed: 04/03/01						
Ethanol	ND	400	ug/l							
tert-Butyl alcohol	ND	12.0	"							
Methyl tert-butyl ether	ND	0.500	"							
Di-isopropyl ether	ND	0.500	"							
Ethyl tert-butyl ether	ND	0.500	"							
tert-Amyl methyl ether	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
Ethylene dibromide	ND	0.500	"							
Surrogate: 1,2-Dichloroethane-d4	*8.25*		"	*10.0*		*82.5*	*70-130*			
LCS (1D04006-BS1)				Prepared & Analyzed: 04/03/01						
Methyl tert-butyl ether	9.18	0.500	ug/l	10.0		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.34*		"	*10.0*		*93.4*	*70-130*			
Matrix Spike (1D04006-MS1)		**Source: MKC0591-03**		Prepared & Analyzed: 04/03/01						
Methyl tert-butyl ether	9.46	0.500	ug/l	10.0	1.26	82.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.79*		"	*10.0*		*97.9*	*70-130*			
Matrix Spike Dup (1D04006-MSD1)		**Source: MKC0591-03**		Prepared & Analyzed: 04/03/01						
Methyl tert-butyl ether	8.58	0.500	ug/l	10.0	1.26	73.2	70-130	9.76	25	
Surrogate: 1,2-Dichloroethane-d4	*10.1*		"	*10.0*		*101*	*70-130*			

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Blaine Tech Services (Shell)	Project: 2120 Montana St., Oakland	
1680 Rogers Avenue	Project Number: 2120 Montana St., Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/25/01 15:14

Notes and Definitions

P-01	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

LAB: Sequoia

EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced:

☒ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY): 98995740

SAP or CRMT NUMBER (TS/CRMT):

DATE: 3/23/01

PAGE: 1 of 1

CONSULTANT COMPANY: Blaine Tech Services

ADDRESS: 10 Rogers Avenue

CITY: San Jose, CA 95112

TELEPHONE: 408-573-0555 FAX: 408-573-7771 E-MAIL: nsudano@blainetech.com

SITE ADDRESS (Street and City): 2120 Montana Street, Oakland

PROJECT CONTACT (Report to): Nick Sudano

CONSULTANT PROJECT NO.: BTS # 010323-X4

SAMPLER NAME(S) (Print): HOYT RYACES

LAB USE ONLY: MKC0591

TURNAROUND TIME (BUSINESS DAYS): ☐ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

OXYGENATES TO INCLUDE: MTBE, ETBE DIPE, TAME & TBA

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable (8015m)	BTEX (8021B)	MTBE (8021B)	MTBE (8260B)	TPH - Diesel, Extractable (8015m)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & EDC by 8260	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
MW-1	3/23/01	1256	W	6	X	X				X			X		01
MW-2	↓	1200	↓	↓	X	X				X			X		02
MW-3	↓	1227	↓	↓	X	X				X			X		03

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature] 3/25	[signature]	3-26	05:30
[signature] 3-26 10:20	[signature] MH	3/26/01	1019
(Signature)	Received by: (Signature)	Date:	Time:

White final report, Green to File, Yellow and Pink to Client.

10/15/00 Revision

Q&Q Graphic (714) 898-9702

WELL GAUGING DATA

Project # 010323-X4 Date 3/23/07 Client EQUIVA

Site 2120 Montana St OAKLAND CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					12.25 ~~28.23~~	28.23		
MW-2	2					11.76	20.04		
MW-3	2					11.42	20.04		

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010323-X4	Site: 9899 5740
Sampler: HOYT	Date: 3/23/01
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 28.23	Depth to Water: 12.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:
(Bailer) Waterra
Disposable Bailer Peristaltic
Middleburg Extraction Pump
Electric Submersible Other_____

Sampling Method: (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

2.5 (Gals.) X 3 = 7.6 Gals.
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1244	66.3	6.90	1042	>200	2.5	Sl Hy Turbid
1248	66.4	7.01	1031	>200	5	↓
1253	66.6	6.98	972	>200	8	↓

Did well dewater? Yes (No) Gallons actually evacuated: 8

Sampling Time: 1256 Sampling Date: 3/23/01

Sample I.D.: MW-1 Laboratory: (Sequoia) Columbia Other_____

Analyzed for: (TPH-G) BTEX ~~MTBE~~ TPH-D Other: OXYGENATES (5) by 8260 EDB & EDC by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010323-X4	Site: 98995740
Sampler: HOYT	Date: 3/23/01
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 20.04	Depth to Water: 11.76
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:
(Bailer)
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other ____

Sampling Method: (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: ____

1.3 (Gals.) X 3 = 3.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1153	62.3	7.21	768	>200	1.5	SLIGHT
1156	62.6	7.05	813	>200	3	↓
1158	62.8	7.01	897	>200	4	↓

Did well dewater? Yes (No) Gallons actually evacuated: 4

Sampling Time: 1200 Sampling Date: 3/23/01

Sample I.D.: MW-2 Laboratory: (Sequoia) Columbia Other ____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: OXYGENATES (5) by 8260 EDB & EDC by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010323-X4	Site: 9 899 5740
Sampler: HOYT	Date: 3/23/01
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 20.04	Depth to Water: 11.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:
(Bailer)
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

1.3 (Gals.) X	3	=	4.1 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1220	64.9	7.09	750	7200	1.5	Silty Turbid
1223	65.4	7.08	822	7200	3	↓
1225	65.7	6.98	839	7200	4	↓

Did well dewater? Yes (No) Gallons actually evacuated: 4

Sampling Time: 1227 Sampling Date: 2/23/01

Sample I.D.: MW-3 Laboratory: (Sequoia) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: OXYGENATES (5) by 8260 EDB EDC by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL GAUGING DATA

Project # 010219-F2 Date 3/19/01 Client EQUVA-98995740

Site 2120 MONTANA ST. OAKLAND

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					12.14	28.31		
MW-2	2					11.60	19.74		
MW-3	2					11.42	20.09		

WELL DEVELOPMENT DATA SHEET

Project #: 010319-F2	Client: EQUIVA 98995740
Developer: JEREMY	Date Developed: 3/19/01
Well I.D. MW-4	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth:	Depth to Water:
Before 28.31 After 28.40	Before 12.14 After 12.95
Reason not developed:	If Free Product, thickness:
Additional Notations: SURGED FOR 10 MIN PRIOR TO PURGE	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} /231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

2.6	X	10	=	26
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump
Other equipment used 2" SURGE BLOCK

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
1551	73.1	6.4	1016	>200	2.75	VERY SILTY
1553	70.6	7.0	1018	>200	5.5	"
1556	69.8	7.0	981	>200	8.25	" DTW = 12.51'
1559	69.5	7.0	948	>200	11.0	LESS SILTY/SURGE W/PUMP
1601	69.1	7.0	946	>200	13.75	SILTY
1604	68.9	7.1	924	>200	16.5	"/SURGE W/PUMP
1607	68.6	7.0	933	>200	19.25	"/DTW = 12.82'
1610	68.5	7.0	902	>200	22.0	SILTY
1613	68.4	7.0	912	>200	24.75	"/SURGE W/PUMP
1615	68.5	7.0	900	>200	27.5	SILTY

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 27.5

WELL DEVELOPMENT DATA SHEET

Project #: 010319-F2	Client: EQUILON 98995740
Developer: JEREMY	Date Developed: 3/19/01
Well I.D. MW-2	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth:	Depth to Water:
Before 19.74 After 20.09	Before 11.60 After 15.05
Reason not developed:	If Free Product, thickness:
Additional Notations: SURGED FOR 10MIN PRIOR TO PURGING	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.3	X	10	=	13
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump
Other equipment used 2" SURGE BLOCK

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
1503	71.9	7.2	1076	>200	1.5	VERY SILTY
1504	69.1	7.3	1053	>200	3.0	"
1505	67.5	7.0	1062	>200	4.5	" DTW=13.85'
1507	66.5	6.9	1073	>200	6.0	VERY SILTY
1508	65.9	6.9	1069	>200	7.5	"/SURGE W/PUMP
1510	65.7	7.0	1074	>200	9.0	"
1511	66.0	7.1	1016	>200	10.5	" SURGE W/PUMP
1513	65.9	7.0	1080	>200	12.0	" DTW=15.13'
1514	65.7	7.0	1037	>200	13.5	" SURGE W/PUMP
1516	65.9	7.1	1019	>200	15.0	STILL VERY SILTY
DID NOT FEEL HARD BOTTOM - DID FEEL LIGHT HARD-PACK SILT						

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 15.0

WELL DEVELOPMENT DATA SHEET

Project #: 010319-F2	Client: EQUILON 98595740
Developer: JEREMY	Date Developed: 3/19/01
Well I.D. MW-3	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth:	Depth to Water:
Before 20.09 After 20.13	Before 11.42 After 15.97'
Reason not developed:	If Free Product, thickness:
Additional Notations: SURGED FOR 10 MIN PRIOR TO PURGE	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.4	X	10	=	14
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used 2" SURGE BLOCK

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
1641	71.8	7.2	802	>200	1.5	VERY SILTY
1642	69.7	7.2	821	>200	3.0	"
1644	68.3	7.1	855	>200	4.5	" / DTW = 13.43'
1645	67.7	7.1	839	>200	6.0	" / SURGE W/PUMP
1647	67.4	7.1	846	>200	7.5	"
1649	67.6	7.1	833	>200	9.0	" / SURGE W/PUMP
1650	67.6	7.1	940	>200	10.5	" / DTW = 15.48'
1652	67.8	7.2	967	>200	12.0	SILTY
1653	68.0	7.4	914	>200	13.5	"
1655	68.3	7.5	917	>200	15.0	SILTY

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 15

ATTACHMENT G

Soil Disposal Confirmation

Disposal Confirmation

Consultant	Cambria
Contact	James Loetterle
Phone \ Fax	510-420-3336/420-9170
Client	Shell Oil
Station # \ Wic#	RIPR# 1443, SAP# 135675, Incident# 98995740, WIC# 2045508-0208
Site Address	2120 Montana St.
City \ State	Oakland, CA 94602
Estimated Tons	10 Yards
Actual Tons	2.10 Tons
Disposal Date	3-27-01
Disposal Facility	Forward Landfill
Contact	Brad Bonner
Phone	800-204-4242
Transporter	Manley & Sons Trucking
Contact	Don Manley
Phone \ Fax	916-381-6864 \ 381-1573
Approval #	562
Date \ Time	3-29-01
Invoice#	11682

ATTACHMENT H

Well Survey Results

Virgil Chavez Land Surveying
312 Georgia Street, Suite 225
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

April 3, 2001
Project No. 1903-42

James Loetterle
Cambria Environmental
1144-65th Street, Suite C
Oakland, CA 94608

MAY 2 5 2001

Subject: Monitoring Well Survey
Shell Service Station
2120 Montana Street
Oakland, CA

Dear James:

This is to confirm that we have proceeded at your request to survey the ground water monitoring wells located at the above referenced location. The survey was performed March 29, 2001. The benchmark used for the survey was a City of Oakland benchmark, being a disk monument at approximate centerline of easterly southwest of Fruitvale and Montana St. Measurements taken at approximate north side of top of box and top of casing. The station and offset data are relative to the back of sidewalk on Montana Street beginning at the east end on the easterly driveway.
Benchmark Elev. = 157.127 feet, (NGVD 29).

Well No.	Rim Elevation	TOC Elevation	Station	Offset
MW - 1	160.16'	159.59'	1+47.98	34.43(RT)
MW - 2	158.29'	158.03'	1+58.23	-34.88(LT)
MW - 3	161.61'	161.13'	0+33.44	54.90(RT)
BSW beg. d/w			0+00	0.00
BSW - Montana St.			---	0.00

LICENSED LAND SURVEYOR
VIRGIL D. CHAVEZ
No. 6323
Exp. 12-31-02
STATE OF CALIFORNIA

Sincerely,

Virgil D. Chavez

Virgil D. Chavez, PLS 6323