

December 13, 1999

Ms. Eva Chu Alameda County Department of Environmental Heath 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502



Re: LETTER OF TRANSMITTAL — MONITORING WELL INSTALLATION and QUATERLY MONITORING REPORT

Clark's Home and Garden 23040 Clawiter Road Hayward, California

Dear Ms. Chu:

Cambria Environmental Technology, Inc. has enclosed the *Monitoring Well Installation and Quarterly Monitoring Report* for the above-referenced site.

jriggi@cambria-env.com

If you have any questions, please do not hesitate to call me at (510) 420-3340.

Sincerely,

Cambria Environmental Technology, Inc.

Senior Staff Geologist

Enclosures

Oakland, CA

cc:

Mr. Ken Clark, 537 Hidden Valley Road, Grants Pass, Oregon 97527

Sonoma, CA Portland, OR Seattle, WA

11:\Clarks H&G\Well Installation Report\Transmittal Letter.doc

Cambria Environmental Technology, Inc.

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

MONITORING WELL INSTALLATION and QUARTERLY MONITORING REPORT

Clark's Home and Garden 23040 Clawiter Road Hayward, California Cambria Project No. 189-1541

December 6, 1999



Prepared for:

Kenneth D. Clark Clarks Home and Garden 23040 Clawiter Road Hayward, California

Prepared by:

Cambria Environmental Technology, Inc. 1144 65th Street, Suite B Oakland, California 94608

No. 6584

Oakland, CA Sonoma, CA

Portland, OR

Seattle, WA

Senior Staff Geologist

David C. Elias, R.G. Senior Geologist

Cambria Environmental Technology, Inc.

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

MONITORING WELL INSTALLATION and QUARTERLY MONITORING REPORT

Clark's Home and Garden 23040 Clawiter Road Hayward, California Cambria Project No. 189-1541

December 6, 1999



INTRODUCTION

On behalf of Mr. Kenneth Clark, the property owner, and Mr. Clark's representatives, Mr. and Mrs. Bob and Shirley Price, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Monitoring Well Installation and Quarterly Monitoring Report* for the above-referenced site. In a February 22, 1999 letter, the Alameda County Health Care Services Agency (ACHCSA) requested additional permanent monitoring wells offsite. On July 23, 1999 the ACHCSA approved Cambria's Soil and Groundwater Investigative Work Plan dated July 23, 1999. Presented below are summaries of the site background, well installation activities, investigation results, conclusions and recommendations, and planned activities.

SITE BACKGROUND

The site is located near the intersection of Clawiter Road and National Avenue in Hayward, California (Figure 1). Currently the property is operated as a home and garden center in a commercial area.

1988 Underground Storage Tank (UST) Removal: In November 1988 Kaprealian Engineering Inc. (KEI), of Benicia, California removed one 3,000 gallon unleaded UST and one 1,000 gallon diesel UST from the north side of the site's main office building. There were no leaks observed in the unleaded UST during removal. However, KEI observed several small holes in the diesel UST. Analytical results from samples collected underneath the diesel UST indicated the presence of up to 3,500 mg/kg total petroleum hydrocarbons as gasoline (TPHg) and 24,000 mg/kg total petroleum hydrocarbons as diesel (TPHd) beneath the site. KEI excavated soil to a

depth of 18 feet below ground surface (bgs). Sidewall sample SW-1, collected after the excavation, reported TPHg and TPHd concentrations of 670 mg/kg and 1,100 mg/kg, respectively.

1991 Monitoring Well Installation: On August 1, 1991, groundwater monitoring well MW-1 was installed on the western edge of the former UST excavation. One soil sample analyzed from the capillary fringe at 15 feet bgs contained 6,700 mg/kg TPHg and 350 mg/kg TPHd, however, no benzene or toluene was detected.



1995 Soil Borings: On November 22, 1995, Geomatrix of San Francisco, California conducted an additional site assessment at the request of the ACHCSA. Four borings were advanced to collect grab groundwater samples across the site. Total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), and total petroleum hydrocarbons as motor oil (TPHmo) were detected in grab groundwater samples at concentrations of 11,000, 270,000, and 3,300 micrograms per liter (μ g/l), respectively.

1997 Soil Borings: Based on their November 22, 1995 findings, in February 1997 Geomatrix advanced four additional borings to collect additional grab groundwater samples in Clawiter Street, downgradient of the site. Grab groundwater samples contained maximum concentrations of 1,100,000 μ g/l TPHd, 8,600 μ g/l TPHg, and 4 μ g/l benzene. No methyl tertiary butyl ether (MTBE) was detected.

WELL INSTALLATION ACTIVITIES

Scope of Work: To further assess the lateral extent of hydrocarbons in groundwater,

Cambria installed two offsite monitoring wells near former downgradient borings B-6 and B-7 (Figure 2). Cambria's standard field procedures for monitoring well installation are presented in

Appendix A.

Personnel Present: John Riggi, Cambria Geologist, working under the supervision of

David Elias, California Registered Geologist. Jacquelyn Jones,

Cambria Geologist, was onsite to assist with traffic control.

Permits: Alameda County Public Works Agency drilling permit # 99WR466,

and City of Hayward encroachment permit # 99-31000230 were

obtained prior to drilling (Appendix B).

Drilling Company: V & W Drilling, Inc. of Rio Vista, California

(C-57 License No. 720904).

Drilling Date: August 18, 1999.

Number of Wells: Two (MW-2 and MW-3).

Drilling Method: Brainard-Kilman 61 drilling rig equipped with 8-inch diameter

hollow stem augers.

Sampling Method: Well MW-3 was sampled using a modified-California split-spoon

sampler. Due to overhead obstructions, well MW-2 was not

sampled.

Boring Depths: Well MW-2 was drilled to 25 feet bgs. Well MW-3 was drilled to

31.5 feet bgs.

Soil Types Encountered: Soil types encountered offsite consisted of silt and silty sands to

approximately 10 feet depth, underlain by silts and clayey silts to the

maximum depth of explored 31.5 feet bgs (Appendix C).

Groundwater Depths: On August 18, 1999, groundwater was first-encountered at

approximately 17 and 25 feet bgs and stabilized at 15 feet bgs.

Well Construction: The groundwater monitoring wells were constructed of two-inch

diameter schedule 40 PVC casing with 0.010-inch slotted screens. Well MW-2 was screened from 10 to 25 feet bgs and well MW-3 was screened from 10 to 30 feet bgs. The wells were completed with Monterey No. 3 sand from the bottom of the boring to 1 foot above the top of screened casing, which was overlain with 2 feet of bentonite, and bentonite-cement grout to the ground surface. Flushmounted, traffic-rated well boxes were installed to protect each well

(Appendix C).

Well Development: The wells were developed during installation prior to grouting.

Development consisted of surging and purging approximately

10 casing volumes from each well.

Soil Disposal: Soil cuttings produced during drilling activities were transported by

Denbeste Transportation to the Forward Landfill in Manteca,

California for disposal.

Elevation Survey: On August 24, 1999, Virgil Chavez, a California state licensed land

surveyor, measured the elevations of the two new monitoring wells and onsite well relative to a nearby benchmark. The data are

presented in Appendix D and summarized in Table 1.

Monitoring Well Installation and Quarterly Monitoring Report
Clark's Home and Garden
Hayward, California
December 6, 1999

CAMBRIA

Chemical Analysis: Selected soil and groundwater samples were analyzed for TPHg and

TPHd by EPA Method 8015, and BTEX and MTBE by EPA Method 8020 at McCampbell Analytical of Pacheco, California, a California-certified laboratory (Tables 1 and 2). Analytical reports are presented

in Appendix E.

Groundwater Sampling: On October 15, 1999 Cambria conducted groundwater monitoring

and sampling at the site for the fourth quarter of 1999. The results

are included in this report.

INVESTIGATION RESULTS



In general, the soil types encountered were consistent with previous investigations. Soil sample MW-3-16, collected at the capillary fringe during the monitoring well installation, did not contain any TPHg, BTEX or MTBE. However, a TPHd concentration of 1.6 mg/kg was detected. At 21 feet bgs, soil sample MW-3-21 contained a TPHg concentration of 2.6 rng/kg and 1.1 mg/kg TPHd.

No TPHg, BTEX, or MTBE were detected in groundwater samples collected from downgradient well MW-3, on October 15, 1999. However, a low concentration of 99 μ g/l TPHd was detected. Groundwater samples collected from the source area monitoring well, MW-1 contained concentrations of 1,000 μ g/l TPHg, 1,400 μ g/l TPHd, 3.3 μ g/l benzene and low concentrations of toluene, ethylbenzene, and xylenes. Monitoring well MW-2, located approximately 50 feet downgradient from the source area contained TPHd and TPHg concentrations of 3,100 μ g/l, and 4,300 μ g/l, respectively. No benzene or MTBE was detected in groundwater samples collected from MW-2, however low concentrations of toluene, ethylbenzene, and xylenes were detected.

CONCLUSIONS AND RECOMMENDATIONS

Cambria recommends sampling monitoring wells MW-1, MW-2, and MW-3 three more times to complete one hydrogeologic cycle. In addition to TPHg, BTEX, and TPHd, Cambria recommends analyzing the samples for dissolved oxygen, sulfate, nitrate, ferrous iron, and oxygen reduction potential to confirm that natural hydrocarbon biodegradation is occurring at the site. If hydrocarbon concentrations remain stable during these sampling events, Cambria will likely recommend case closure based on the flowing rationale:

• There are no known sensitive receptors in the site vicinity. Based on United States

Monitoring Well Installation and Quarterly Monitoring Report Clark's Home and Garden Hayward, California

December 13, 1999

CAMBRIA

Geological Survey topographic maps, the nearest surface water bodies are more than one mile away. According to Geomatrix's June 11, 1997 *Groundwater Investigation Results and Evaluation of Closure Criteria Report*, the nearest water supply well is a domestic well located west of the site at 23145 Clawiter Road. Since there is no significant impact to shallow groundwater at the site, it is expected that potential deeper drinking water aquifers beneath the site will not be impacted.

(3)

- The site has been adequately characterized and the plume is stable. Since the removal of the USTs and overexcavation in 1988, the 1991 Terratech well installation, the 1995 and 1997 Geomatrix investigations, and the 1999 Cambria well installation have adequately defined the plume. No BTEX were detected in any of the soil samples collected from downgradient monitoring wells MW-2 and MW-3. MTBE was not detected in any soil sample collected and analyzed during the well installations. MTBE was not detected in the groundwater water samples collected and analyzed during the fourth quarter monitoring and sampling activities. Benzene was not detected in any groundwater samples collected from the downgradient wells MW-2 and MW-3. Although 3.3 μg/l benzene was detected in source area monitoring well MW-1, this is near the Department of Toxics Substances Control maximum contaminant level of 1 μg/l and benzene concentrations have decreased from 18 μg/l to 3.3 μg/l since 1997. Based on the decrease in concentrations from soil and groundwater samples collected since 1988, natural attenuation is likely occurring beneath the site.
- The site presents no significant risk to human health. Due to the relatively low benzene concentrations in soil and groundwater, it is unlikely that the remaining hydrocarbons will pose a significant human health risk.

PLANNED ACTIVITIES

Groundwater Monitoring: Cambria will continue quarterly monitoring at the site until further notice from the ACHCSA.

· No conduits

ATTACHMENTS

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Table 1 - Soil Analytical Results

Table 2 - Groundwater Analytical Results

Appendix A - Standard Field Procedures for Monitoring Well Installation

Appendix B - Drilling and Encroachment Permit

Appendix C - Boring Logs

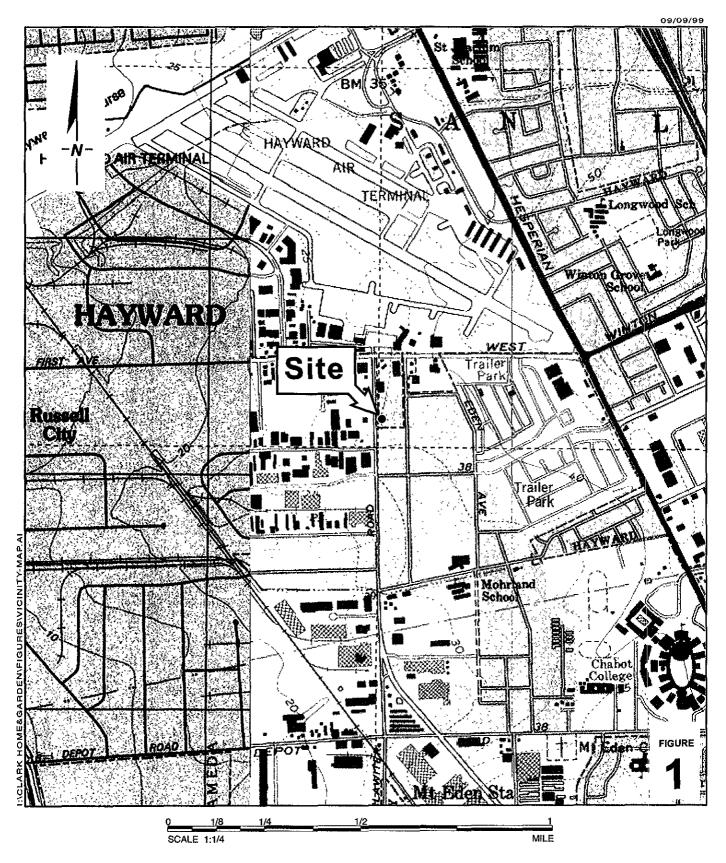
Appendix D - Monitoring Well Survey Data

Appendix E - Analytical Report



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Figures



Clark's Home and Garden



Vicinity Map

Clark's Home and Garden

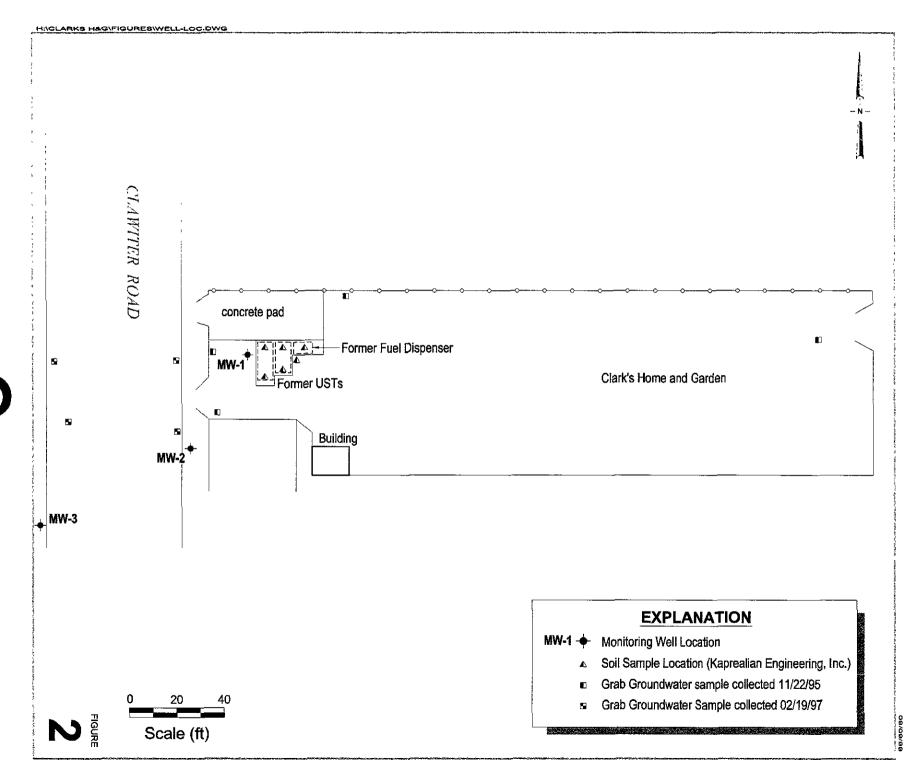




Table 1. Soil Sample Analytic Data - Clark's Home and Garden, 23040 Clawiter Road, Hayward, California

Sample ID	Sample Depth (ft)	Sample Date	ТРН	TPHg <	Benzene	Toluene (mg/kg)	Ethylbenzene	Xylenes	мтве
MW-3 @ 16'	16.0	8/18/99	1.6ª	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
MW-3 @ 21'	21.0	8/18/99	1.1 ^b	2.6 ^c	<0.005	<0.005	<0.005	<0.005	<0.05

Notes:

TPHd = Total purgeable petroleum hydrocarbons as diesel by EPA method Modified 8015.

TPHg = Total purgeable petroleum hydrocarbons as gasoline by EPA method Modified 8015.

Benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA method 8020.

MTBE = Methyl tert-butyl ether by modified EPA method 8020.

a = Analytical laboratory notes diesel range compounds are significant; no recognizable pattern.

b = Analytical laboratory notes gasoline range compounds are significant.

c = Analytical laboratory notes no recognizable pattern

Table 2. Groundwater Analytical Data - Clark's Home and Garden, 23040 Clawiter Road, Hayward, California

Well ID TOC (ft)	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft*)	TPHg	TPHd <	Benzene	Toluene (µg/L)	Ethylbenzene	Xylenes	МТВЕ
MW-1 35.30	8/7/91	na	na	5,900	7,100	45	<25	130	520	па
JJ.J0	9/5/91	na	па	47,000	2,800	<50	<50	230	660	na
	10/15/91	na	па	24,000	13,000	<50	<50	<50	390	na
	1/7/92	па	na	23,000	9,000	<50	<50	270	800	па
	4/8/92	na	па	8,100	3,500	19	<5	350	210	na
	7/7/92	na	na	7,000	6,300	<5	<5	190	170	па
	11/23/93	na	na	2,400	1,600	1.5	3.7	41	24	na
	1/31/94	na	na	3,900	1,900	1.9	4.2	56	49	na
	4/11/94	па	na	2,200	3,000	1.2	4.6	11	11	па
	7/27/94	па	na	6,200	4,400	<1	<1	50	74	na
	10/31/94	па	na	1,700	1,800	2.1	4.9	20	42	na
	10/9/95	na	па	870	1,300	<0.5	<0.5	12	10.4	na
	1/17/96	na	na	1,800	1,800	10	<5	16	19.8	па
	4/25/96	na	na	1,700	1,500	11	5.7	26	25	na
	2/19/97	na	na	2,800	430	9	6	33	50	na
	10/15/99	14.45	20.85	1,000°	1,400	3.3	5	4.6	6.7	<5.0

Table 2. Groundwater Analytical Data - Clark's Home and Garden, 23040 Clawiter Road, Hayward, California

Well ID TOC (ft)	Date	Depth to Groundwater (ft)	Groundwater Elevation (fi*)	TPHg	TPHd <	Benzene	Toluene (µg/L)	Ethylbenzene	Xylenes >	MTBE
MW-2 34.62	10/15/99	13.86	20.76	4300 ^{g ĵ}	3,100	<1	6.7	11	11	<50
MW-3 35.30	10/15/99	14.88	20.42	<50	99	<0.5	<0.5	<0.5	<0.5	<5.0
ТВ	10/15/99	na	па	<50		<0.5	<0.5	<0.5	<0.5	<5.0

Abbes	AT74 O 11 O	ns and	- 0./Le1	HAAAc.

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

MTBE = Methyl tert-butyl ether by EPA Method 8020

MTBE (8260) = Methyl tert-butyl ether by EPA Method 8260

mg/L = micrograms per liter

Notes:

a -unmodified or weakly modified gasoline is significant.

b - lighter than water immiscible sheen is present.

Abbreviations and Methods (Cont'd):

TOC = top of casing elevation

TB = trip blank

na = not applicable

-- = not available, not analyzed, or does not apply

g - strongly aged gasoline or diesel range compounds are significant

j - no recognizable pattern

H. V. Clarks H. V.

Appendix A

Standard Field Procedures for Monitoring Well Installation

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.

Appendix B

Drilling and Encroachment Permits

JUL 28 1999 11:10 FR
JUL-27-1999 14:23 PUBLIC WORKS

WATER RESOURCES SECTION 957 TURNER COURT, SUITE 900, MAYWARD, CA 94545-2691 PHONE (510) 670-5675 ANDREAS GODFRZY (310) 670-5148 ALVIN MAIN

MOTTAGE TEMARE SMILTER

DRIGHT OF THE	
Lon Tablicani lo Combibili	FOR OFFICE USE
22 Jun 11 Jun 10 1	PERMIT NUMBER 99WR400
LOCATION OF PROJECT 23040 Clawiter Fond	WELL NUMBER
HALLING CALIFORNIA	APN
California Coordinates Sourceft. Accuracy ±ft	Permit Compitions
CCN CCE	Circled Permit Requirement Apply
WK	
CLIENT US Vanneth Clark & Mr Bab Price	GENERAL 1. A permit application should be submitted so as to
	arrive at the ACPWA office five days prior to
Address 537 Hiden Valley Genous 47527	bronosti starting data.
City Grant's Park OR Tip 97527	2. Submit to ACTWA within 60 days after completion of
APPLICANT	permitted work the original Department of Water
Name Intel RIGGI - CAMBRIA ENVI.	Reservors Wester Well Drillers Report or equivalent for
Fax 318 436 411 6	well projects, or drilling logs and location skamb for geoscabnical projects.
Address 1144 Loth Street Phone 510 430 6340	2) Permit is void if project not began within 90 days of
CID DAKLAND CR 20 44608	approved date.
TYPE OF FROJECT	B. WATER SUPPLY WILL'S
Well Construction Geometrical Investigation	lo endant uws ei ennelaith feor eachtus mundinim. I
Cathodic Protection C General D	convert grout placed by armic. 2. Winingen and depth is 50 feet for municipal and
Weser Supply Consumination D.	industrial wells or 20 feet for departs; and irrigation
Monitoring Well Description O	wells obles a lesser depth is specially approved.
Proposed water supply will use	C GROUNDWATER MONITORING WELLS
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Industrial C Other C	coment growt placed by Hordly.
	2 Minimum scal depth for munitaring walls is the
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Cable a Other of Hollow Stem	beautale and upper two feet with completed amterial.
DRILLER'S LICENSE NO. CS7 -720904	is most of known or simpoint contendation, trended
DKITTER'S CACERS FOR	cernical grout than be used in place of compacted curings-
WELL PROJECTS O	E- CATRODIC
Delli Holo Diamotor D in. Maximum	Fill hole above made zone with concrete placed by warrie. F. WELL DESTRUCTION
Carlog Diameter Z! in Depth 25 ft. Surbas Seal Depth 25 ft. Number Z	2. Will Profession
Surface Seal Depth 12 Number 2	C. SPECIAL CONDITIONS
GEOTECHNICAL PROJECTS .	
Number of Boriogs Maximum	
Hale Dismeterbs. DepthR.	. (1
ESTIMATED STARTING DAYS August 18, 1999	$C \cap C \cap A \cap A = A = A = A = A = A = A = A = A$
ESTIMATED COMPLETION DATE AND 13, 1945	APPROVED all July this DATE TO CA
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Alemeda County Ordings re 110. 73-68.	
f = f + f + 1.	•
APPLICANT'S O A A	•

TAKEN BY: KAB

DATE:08/11/99

CITY OF HAYWARD

PERMIT

ISSUED BY: BYA DATE:08/17/99 PERMIT NO. 99-31000230

OWNER/

APPLICANT:

CLARK'S HOME AND GARDEN

23040 CLAWITER ROAD

HAYWARD CA 94545

CONTRACTOR:

CAMBRIA ENVIRONMENTAL TECH, INC.

1144 65TH STREET, STE. B

OAKLAND CA 94608

PROJECT LOCATION:

23040 CLAWITER RD

CONTACT NAME & TELEPHONE:

JACQUELYN JONES

(510) 420 - 0700

RISSI JOHN

THE APPLICANT HEREBY APPLIES FOR PERMISSION TO:

Install two (2) groundwater monitoring wells in City's right-of-way (sidewalk).

This Permit is subject to the following conditions:

- 1. The permittee assumes all responsibility for damage to existing underground utilities.
- 2. Hours of Operation shall be limited to between 9:00 AM and 3:00 PM.
- 3. Traffic routing shall be performed per Caltrans Traffic Manual & Standard Plans.
- 4. All existing concrete to be removed shall be saw-cut 1" deep at the nearest score mark and removed or removed at expansion joints.
- 5. Any pavement damaged due to this construction shall be neatly edged, removed and replaced at the direction of the City Inspector.
- 7. Call USA toll free 1-800-642-2444 at least 48 hours prior to any excavation.
- 8. Call (510) 583-4140 one day in advance to schedule an inspection.
- 9. This permit subject to cancellation if work is not completed within 90 days.

fee:	\$293.00 (Additional Fee	of \$32.00 Due)	ACCOUNT:	4815

APPROVED BY:

Backer J. Granles

APPLICANT AGREES TO COMPLY WITH ALL OF THE APPLICABLE SECTIONS OF THE CITY OF HAYWARD MUNICIPAL CODE AND STANDARD SPECIFICATIONS.

x _		
	DATE	_

Appendix C

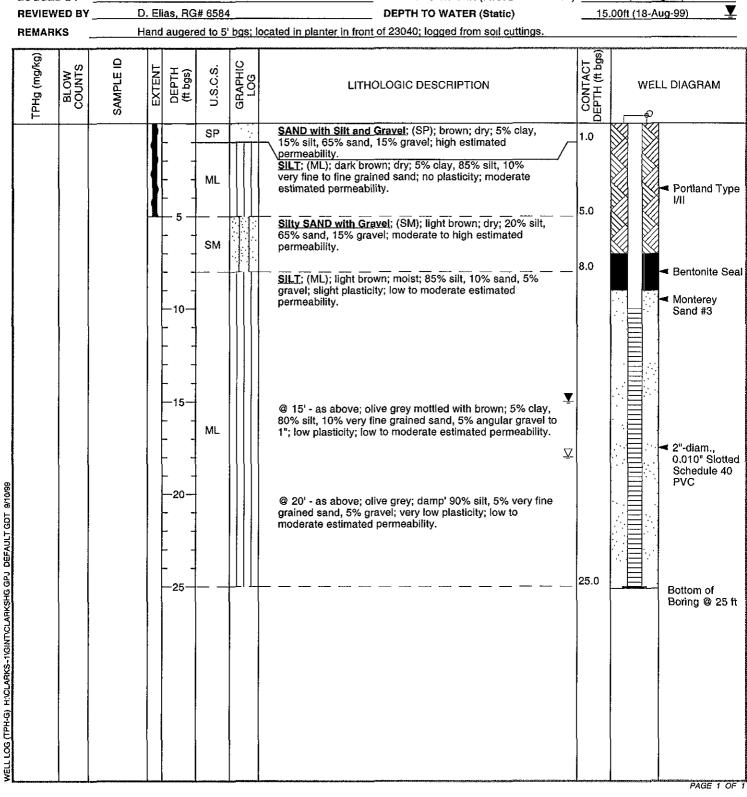
Soil Boring Logs

BORING/WELL LOG



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

CLIENT NAME	Clark's Home and Garden	BORING/WELL NAME MW-2
JOB/SITE NAME	Clark's Home and Garden	DRILLING STARTED 18-Aug-99
LOCATION	23040 Clawiter Road, Hayward, California	DRILLING COMPLETED18-Aug-99
PROJECT NUMBER	189-1517	WELL DEVELOPMENT DATE (YIELD) 18-Aug-99
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER	8 ^H	SCREENED INTERVAL 10 to 25 ft bgs
LOGGED BY	J. Jones	DEPTH TO WATER (First Encountered) 18.0 ft (18-Aug-99)
REVIEWED BY	D. Elias, RG# 6584	DEPTH TO WATER (Static) 15.00ft (18-Aug-99)
REMARKS	Hand augered to 5' bgs; located in planter in front	of 23040; logged from soil cuttings.

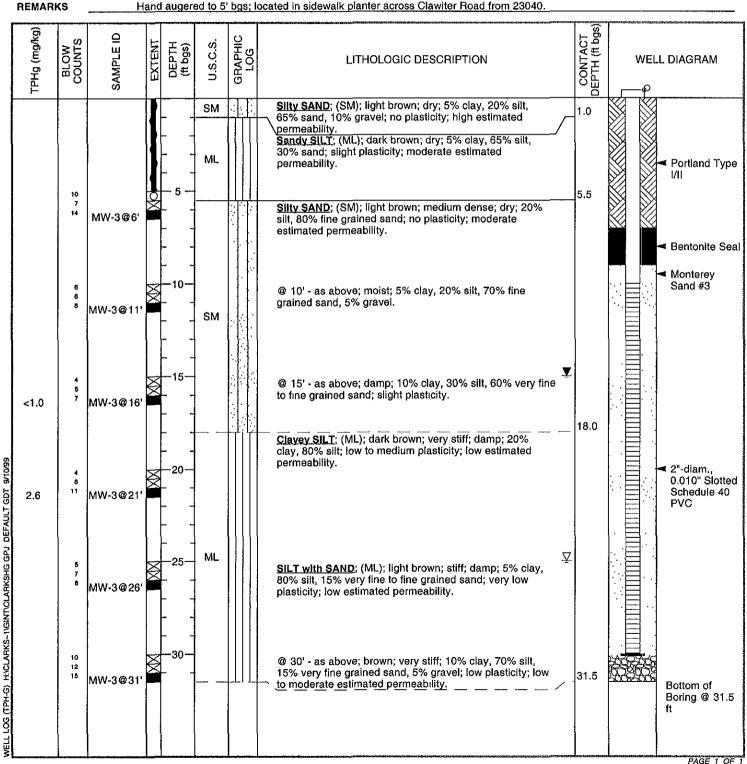


BORING/WELL LOG



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

CLIENT NAME	Clark's Home and Garden	BORING/WELL NAME MW-3
JOB/SITE NAME	Clark's Home and Garden	DRILLING STARTED 18-Aug-99
LOCATION _	23040 Clawiter Road, Hayward, California	DRILLING COMPLETED 18-Aug-99
PROJECT NUMBER _	189-1517	WELL DEVELOPMENT DATE (YIELD) 18-Aug-99
DRILLER	V&W Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD _	Hollow-stem auger	TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER _	8 ⁴	SCREENED INTERVAL 10 to 30 ft bgs
LOGGED BY	J. Jones	DEPTH TO WATER (First Encountered) 25.0 ft (18-Aug-99)
REVIEWED BY	D. Elias, RG# 6584	DEPTH TO WATER (Static) 15.00ft (18-Aug-99)
REMARKS	Hand augered to 5' bgs; located in sidewalk plante	r across Clawiter Road from 23040.



Appendix D

Monitoring Well Survey Data

Virgil Chavez Land Surveying

312 Georgia Street, Suite 200 Vallejo, California 94590-5907 (707) 553-2476 • Fax (707) 553-8698

September 16, 1999 Project No. 1703-30

John Riggi Cambria Environmental 1144 65th Street, Suite C Oakland, Ca. 94608

Subject: Monitoring Well Survey

Clark's Home and Garden 23040 Clawiter Road

Hayward, Ca.

Dear Mr. Riggi:

This is to confirm that we have proceeded at your request to survey the monitoring wells at the above referenced location. The survey was performed on September 15, 1999. The benchmark for the survey was a City benchmark being the disk of the southerly monument at Clawiter & National Ave. Measurements taken at approximate north side of top of box, and top of casings. The coordinate table is for casing locations, the coordinates are arbitrary.

Monitoring Well No.	Rim Elevation	TOC Elevation
MW - 1	35.81'	35.30'
WM - 3	35.18'	34.62'
MW - 3	36.00′	35.30′
Description	Northing	Easting
MW - 1	4867.39	4926.59
MW - 2	4935.19	4998.19
MW - 3	4968.44	5030.30
Corner Conc. Block Wall (Northwest Corner of Sit	5000.49 e)	5006.18

No. 6323

Sup. R. B. D. OZ

Sincerely,

irgil D. Chavez, PLS

Appendix E

Analytical Report

Cambria Environmental Technology	Client Project ID: #189-1541;	Date Sampled: 08/18/99		
1144 65 th Street, Suite C	Clark's Home & Garden	Date Received: 08/19/99		
Oakland, CA 94608	Client Contact: John Riggi	Date Extracted: 08/19-08/23/99		
	Client P.O:	Date Analyzed: 08/20-08/23/99		

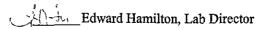
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

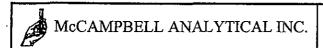
Lab ID	Client ID	Matrix	TPH(g)⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
17494	MW3 @ 16'	S	ND	ND	ND	ND	ND	ND	101
17495	MW3 @ 21'	s	2.6,j	ND	ND	ND	ND	ND	96
17498	Comp	S	4.7 _x j	ND	ND	ND	ND	ND	95
			<u></u>						
Reporting otherwi	g Limit unless se stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means not detected above the reporting limit		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



^{*}cluttered chromatogram; sample peak coelutes with surrogate peak



Cambria Environmental Technology	Client Project ID: #189-1541;	Date Sampled: 08/18/99
1144 65th Street, Suite C	Clark's Home & Garden	Date Received: 08/19/99
Oakland, CA 94608	Client Contact: John Riggi	Date Extracted: 08/19/99
	Client P.O;	Date Analyzed: 08/19-08/23/99

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

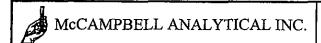
EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)⁺	% Recovery Surrogate
17494	MW3 @ 16'	S	1.6,b	98
17495	MW3 @ 21'	S	1.1,d	99
17498	Comp	S	7.8,a,d	110
Reporting Li	mit unless otherwise	w	50 ug/L	
itated; ND mea the re	ans not detected above porting limit	S	1.0 mg/kg	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

^{*} cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.



Cambria En	vironmental Techno	logy	Cli	ent Project ID:	#189-1541;	İ	Date Sampled: 08	3/18/99
1144 65 th St	reet, Suite C		Cla	ark's Home &	Garden	[Date Received: 0	8/19/99
Oakland, Ca	A 94608		Cli	ent Contact: Jo	ohn Riggi		Date Extracted: 0	8/19/99
			Cli	ent P.O:			Date Analyzed: 0	8/19/99
EPA analytical	methods 6010/200.7, 239	9.2+		Lea	d*		***************************************	Mary supplemental
Lab ID	Client ID	Matr	ix	Extraction °		Lead	*	% Recovery Surrogate
17498	Comp	s		TTLC		7.4		97
Reporting Li	mit unless otherwise	S		TTLC	3.	.0 mg	/kg	TM Vi
stated; ND me	ans not detected above	W		TTLC	0.	.005 r	ng/L	
				STLC,TCLP	0).2 mg	g/L	

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L

^{*}Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

[°] EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC - CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

^{*} reporting limit raised due matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

16385 ZC46

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Company: Cambria En	ivironmen	fall lector	iology										-	1	(F)					.	, 1											
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	į į	5	1 1	Ŭ #	Type	Water	Soil		Other	ige See		Other C.	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil &	Tota	EPA 601/8010	E	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624/8240/8260	EPA 625 / 8270	ZAH	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	KCI					!
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Cambria Environmental Technology	Client Project ID: #189-1517;	Date Sampled: 10/15/99
1144 65 th Street, Suite C	Clark's H & G	Date Received: 10/18/99
Oakland, CA 94608	Client Contact: Jacquelyn Jones	Date Extracted: 10/19-10/25/99
	Client P.O:	Date Analyzed: 10/19-10/25/99

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA metho	ds 5030, modified	18015, and	8020 or 602; Ca	ifornia RW(QCB (SF Bay	Region) metl		30)	
Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
23494	MW I	w	1000,a	ND	3.3	5.0	4.6	6.7	#
23495	MW 2	w	4300,g,j	ND	ND<1	6.7	11	11	#
23496	MW 3	w	ND	ND	ND	ND	ND	ND	108
23497	ТВ	w	ND	ND	ND	ND	ND	ND	102
·									
	-	:							
						_			
									
						-			
	ng Limit unless ise stated; ND	5.0	0.5	0.5	0.5	0.5	-		
means no	t detected above porting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

^{&#}x27;The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; j) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



^{*}cluttered chromatogram; sample peak coelutes with surrogate peak

Cambria Environmental Technology 1144 65 th Street, Suite C	Client Project ID: #189-1517; Clark's H & G	Date Sampled: 10/15/99 Date Received: 10/18/99
Oakland, CA 94608	Client Contact: Jacquelyn Jones	Date Extracted: 10/18/99
	Client P.O:	Date Analyzed: 10/18/99
Diesel Range	(C10-C23) Extractable Hydrocarbo	ns as Diesel *

Lab ID	Client ID	Matrix	TPH(d)⁺	% Recovery Surrogate
23494	MW 1	w	1400,d,b	107
23495	MW 2	w	3100,d,b	111
23496	MW 3	w	99,b	105
				
Reporting Lir	nit unless otherwise uns not detected above	w	50 ug/L	
stated; ND mea the re	ns not detected above porting limit	S	1.0 mg/kg	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

^{*}The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

QC REPORT

Date:

10/17/99-10/18/99

Matrix:

Water

Extraction:

N/A

		Concent	ration:	ug/L	%Rec	overy]	
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD	
SampleID: 23194		ment: G	ent: GC-3					
Xylenes	0.0	304.0	305.0	300.00	101	102	0.3	
Ethyl Benzene	0.0	100.0	100.0	100.00	100	100	0.0	
Toluene	0.0	103.0	100.0	100.00	103	100	3.0	
Benzene	0.0	102.0	99.0	100.00	102	99	3.0	
MTBE	0.0	100.0	88.0	100.00	100	88	12.8	
GAS	0.0	874.9	881.3	1000.00	87	88	0.7	
SampleID: 23325				Instru	ment: G	C-6 A		
TPH (diesel)	0.0	328.5	331.4	7500.00	4	4	0.9	
SampleID: 23325				Instru	ment: IF	R-1		
TRPH	0.0	25.8	26.5	23700.00	0	0	2.7	

 $\% \text{ Re covery} = \frac{\left(MS - Sample \right)}{AmountSpiked} \cdot 100$

 $RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2\cdot100$

RPD means Relative Percent Deviation

104

88

106

88

1.9

0.5

QC REPORT

Date:

MTBE

GAS

10/19/99

Matrix:

Water

100.00

1000.00

Extraction:

N/A

		Concent	ration:	ug/L	%Rec	overy	
Compound	Sample	MS	MSD	Amount Spiked	мѕ	MSD	RPD
SampleID: 23194				Instru	ıment; G	C-3	
Xylenes	0.0	303.0	308.0	300.00	101	103	1.6
Ethyl Benzene	0.0	100.0	102.0	100.00	100	102	2.0
Toluene	0.0	103.0	105.0	100.00	103	105	1.9
Benzene	0.0	111.0	113.0	100.00	111	113	1.8

SampleID: 23325 Instrument: GC-6 A 0.0 331.6 4.2 TPH (diesel) 345.9 7500.00 5

104.0

880.8

106.0

884.9

0.0

0.0

$$\% \text{ Re covery} = \frac{\left(MS - Sample\right)}{AmountSpiked} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2.100$$

17270 ZC70

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	ompany: Cambria Environmental Technology													Ð						\top										
	th Street, Suit	e C													/B&		Ì		- 1		İ									
Oakiand	i, CA 94608												Ē		S&F		1					310			1					
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