Shell Oil Products US

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
SAP Code 129449

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Subsurface Investigation Work Plan* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Shell Oil Products US

Denis L. Brown
Project Manager

20945 S. Wilmington Ave., Carson, CA 90810 Phone (707) 865-0251 Facsimile (707) 865-2542

CAMBRIA

January 31, 2007

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **CPT Investigation and Vapor Probe Installation Report**
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
SAP Code 129449
Incident No. 97093397

Dear Mr. Wickham:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent site investigation activities at the referenced site. The purposes of this investigation were detailed during a meeting between Shell and the Alameda County Environmental Health (ACEH) Department on August 2, 2006, re-iterated below for reference. Cambria followed the scope of work and procedures presented in our August 31, 2006 *Subsurface Investigation Work Plan,* which was approved by the ACEH in their September 5, 2006 letter to Shell.

EXECUTIVE SUMMARY

- All five of the proposed on-site borings were completed (CPT-1 through CPT-5). Only one of the five proposed off-site borings was initiated, but terminated due to potential property damage (CPT-9) and CPT-8 was not extended due to the same concern; thus the proposed soil vapor sample near MW-14 was not collected. CPT-6 and CPT-7 could not be installed due to subsurface utility conflicts, and CPT-10 could not be installed due to lack of response to Shell's request for access from the Oakland Unified School District.

- Lack of adequate groundwater sample recharge for sample collection from numerous locations between 15 and 29 fbg beneath the site demonstrates the tightness of the silts and clays beneath the site.

Cambria Environmental Technology, Inc.

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- Sample results from groundwater between 31 – 37 fbg confirm significant attenuation of contaminants of at least one order of magnitude from the interval monitored by the site wells (5 – 20 fbg).

- Comparison of grab groundwater data from 1995, 2000, and 2006 in the former dispenser area (B-6 & B-9, B-19, and CPT-5, respectively) demonstrates the occurrence of attenuation of contaminants over time.

- The six onsite vapor probes were installed, but no sampling occurred due to the presence of water within half of the vapor probes.

- A site visit and inspection at 664 27th Street was performed and revealed that due to significant ventilation and air exchange with outdoor ambient air, vapor sampling within the above-ground basement is no longer deemed necessary.

SITE DESCRIPTION AND BACKGROUND

The site is a former service station located on the northwest corner of Martin Luther King Jr. Way and 27th Street in a mixed commercial and residential area of Oakland, California (Figure 1). Currently, the site is occupied by Auto-Tech West and is utilized as an automotive repair shop.

A summary of previous work performed at the site and additional background information is contained in Attachment A. The site plan and historical sample locations are depicted on Figure 2. The objectives of the work presented below are also presented in Attachment A, for reference.

CPT INVESTIGATION RESULTS

Permit: A drilling permit for the CPT borings was obtained from the Alameda County Public Works Agency (W2006-0854) and for CPT-6 and CPT-7, encroachment permits were obtained from the City of Oakland (#X0601051 and OB060633). Copies of the permits are included in Attachment B.

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Drilling Dates: October 16-18, 20, 2006.

Drilling Company: Gregg In Situ, Inc.

Personnel: Geologist Matthias Kennerknecht directed the drilling activities under the supervision of California Professional Geologist Ana Friel.

Drilling Method: Hand Auger (0-5 fbg), then Cone Penetration Testing method.

Number of Borings: Of the 10 proposed CPT borings, all five on-site borings (CPT-1 through CPT-5) were completed during this investigation. Off-site, four CPT borings (CPT-6, CPT-7, CPT-8, and CPT-9) were attempted but not completed. Borings CPT-6 and CPT-7 were to be located within the public right-of-way along 27th Street, but could not be installed due to the proximity of numerous subsurface utilities, and alternate locations could not be cleared in time for the scheduled work. Borings CPT-8 and CPT-9, located on private property at 670 27th Street, were attempted. Both locations were hand cleared to 5 fbg and CPT-9 was extended to approximately 18 fbg. Because the site allowed only for a limited access rig, the equipment had to be bolted down and secured to competent concrete. At CPT-9, as resistance increased with depth, the concrete slab began to lift, and it was apparent that extending the boring any deeper would result in failure of the slab and possible injury to personnel. Thus, CPT-9 was discontinued and CPT-8 was not extended beyond the 5 fbg hand-cleared depth. One off-site boring (CPT-10) was not attempted because an access agreement had not been secured.

The boring specifications and soil types encountered as logged by the CPT equipment are presented in Gregg In Situ, Inc.'s CPT Site Investigation Report, October 23, 2006, in Attachment C. The CPT boring locations are shown on Figure 3.

Boring Depths: Borings CPT-1 through CPT-5 were logged to 40 feet below grade (fbg) and CPT-9 was logged to 18 fbg.

Groundwater Depths: Actual depth to first encountered groundwater was not obvious at every location due to the nature of CPT logging. Groundwater sampling was attempted at three depth intervals in borings CPT-1 through CPT-5 ranging from 14 to 37 fbg. With the exception of the 16-20 fbg interval in CPT-5, only the deepest intervals resulted in groundwater sample collection at all five locations.

Soil Disposal: Minimal volume of waste soil was generated through hand auger clearance activities. The material was staged at the subject site, sampled for disposal characterization, and profiled as non-hazardous waste for disposal. On December 7, 2006, Manley and Sons Trucking, Inc. transported approximately 0.15 tons of soil to Allied Waste Industries' Forward Landfill in Manteca, California. The disposal confirmation documentation is included in Attachment D and the laboratory report including the soil characterization is included in Attachment E.

Water Disposal: From the CPT investigation activities, decontamination rinse water was generated from cleaning equipment. The water was contained in a 5-gallon bucket which was checked for pH level, properly labeled, and staged at the site (near MW-7). Arrangements were made for pickup of the waste, but the bucket was found to be missing by the transporter. Cambria visited the site and confirmed that the bucket was not onsite. The property owner was contacted, but has not returned phone calls concerning the bucket of water. Documentation of incomplete disposal is included in Attachment D.

VAPOR PROBE INSTALLATION ACTIVITIES

Permit: A drilling permit was obtained from the Alameda County Public Works Agency (W2005-1192) for installing six vapor probes on site (Attachment B).

Installation Date: The boreholes were extended in January 2006 and the surface at each location was capped with a well box (as reported in Cambria's *Site Investigation Report, and First Quarter 2006 – Groundwater Monitoring Report* dated April 14, 2006). The probes were not installed at that time due to shallow saturated conditions. Periodic checking of the borings indicated saturated conditions throughout most of the year. On November 1, 2006, conditions allowed for the installation of the soil-vapor probe pairs.

Personnel: Technician Mark Johnson installed the vapor probe pairs under the supervision of California Professional Geologist Ana Friel.

Drilling Method: Hand Auger (0-5 fbg).

Number of Borings: Six vapor probe pairs were installed (VP-1 through VP-6 on Figure 3).

Boring Depths: 5.0 feet below grade (fbg).

Probe Construction Specs: Each boring was extended to 5fbg and 0.25 feet of clean filter pack sand was installed. The deeper probe (with 0.25 feet of screen) was inserted in a tremie pipe with the bottom of the screen placed at 4.75 fbg. Filter pack sand was then added to a depth of 4.0 fbg while the tremie pipe was extracted, leaving the deeper screen interval in place from 4.5 to 4.75 fbg. A one-foot think layer of hydrated bentonite grout was placed from 4.0 to 3.0 fbg, on top of which another 0.25 feet of filter pack sand was placed up to 2.75 fbg. The shallower probe (with 0.25 feet of screen) was inserted in a tremie pipe with the bottom of the screen placed at 2.75 fbg. Additional filter pack was then added to a depth of 2.0 fbg while both tremie pipes were extracted, leaving the shallower screen interval in place from 2.5 to 2.75 fbg. A hydrated bentonite grout was then extended up into the previously installed well vault box.

Soil Disposal: The initial soil removed during the clearing of VP-1 through VP-6 in January 2006 was documented in the above-referenced

report dated April 14, 2006. Additional soils that sloughed into some of the borings was removed with a hand auger and placed in the same stockpile as the CPT boring waste (disposal documentation referenced above).

Vapor Probe Inspection: Because shallow groundwater is observed frequently at this site and throughout most of the year in the borings of VP-1 through VP-6, the vapor probes were inspected prior to scheduling any vapor sampling activities. On December 4, 2006, Cambria inspected the tubing for water droplets. Io the tubing that appeared dry, a vacuum was applied for a few seconds to see if water was present. Water droplets and or water was present in half of the probes (VP-2, VP-3, and VP-5 both intervals), thus, a sample event was not performed.

ANALYTICAL RESULTS

CPT Groundwater Results: The groundwater chemical analytical data from the CPT borings is summarized in Table 1. TPHg and benzene analytical results for the discreet groundwater samples are presented on Figure 3. The certified laboratory analytical report is presented in Attachment E.

664 27th STREET BASEMENT INSPECTION

Because of the elevated concentrations of volatile petroleum hydrocarbons within the groundwater beneath the subject site and based on historical soil vapor samples along the property boundary, Shell and ACEH agreed that sampling of the basement beneath the residence at 664 27th Street would be prudent to evaluate potential vapor intrusion to indoor air. After significant negotiations, a limited access agreement was executed between Shell and the property owner of 664 27th Street on October 1, 2006. The access agreement allowed for (1) entry to the property to inspect the above-ground basement in order to determine safety concerns and potential sampling locations, and (2) entry to the property to perform vapor sampling of the ambient air within the above-ground basement. On November 14, 2006, a Cambria Project Manager visited the site and inspected the above-ground basement area. The area was clean of debris or stored materials and no odors were observed. Numerous gaps in the siding, at doorways, and in the garage area were observed. These openings allow for significant air

exchange and ventilation between the above-ground basement and the ambient outside air. Because of the obvious adequate ventilation of the above-ground basement, sampling of the basement air was not scheduled or conducted.

CONCLUSIONS

Lithology and Preferential Pathway: ACEH requested that the CPT data be used to delineate the extent of a silty gravel layer encountered at the downgradient off-site well MW-14 at depths between 13 and 14.5 fbg. A review of the lithology as described on the CPT logs does not identify a single continuous unit of higher permeability within the upper 20 fbg in all borings. While some of the borings did contain sandy silt and even sand lenses, borings CPT-1 and CPT-9 contained only silts and clays within the upper 20 fbg. Borings CPT-3, CPT-4, and CPT-5 depicted sandy silt/silty sand lenses at elevations a bit higher (shallower) than the sandy silt lens observed downgradient at MW-14. Boring CPT-4 contains a one-foot thick sandy silt at approximately the same elevation as the silty gravel layer in MW-14. Borings CPT-4 and CPT-5 both have sandy silt lenses that are a bit deeper than the interval in MW-14. And boring CPT-2 depicted a lens described as "stiff fine grained" by the CPT log (which has no direct correlation with the Unified Soils Classification System used on boring logs) at an elevation slightly lower than the silty gravel in MW-14. Hydropunch sampling was attempted in at least three of these units (CPT-2 @ 15-19 fbg; CPT-4 @ 18-22 fbg, CPT-5 @ 10-14 fbg, and CPT-5 @ 16-20 fbg). No water was retrievable from three of these locations; only CPT-5 @ 16-20 fbg resulted in a water sample which contained 25,000 micrograms per liter (µg/l) of TPHg and 1,100 µg/l benzene. This interval is similar to the monitoring well screens onsite and the concentrations are also similar to what is found in the onsite wells. The 1-foot thick sandy silt lens in CPT-4 that is at the same elevation as the silty gravel in MW-14 was not targeted for water sample collection as this was the first boring installed and it did not present itself as a likely water sample point in this boring.

Horizontal Delineation: None of the off-site CPT borings were able to be completed, limiting the conclusions in terms of off-site plume delineation. Numerous utilities beneath 27th Street and the sidewalk prohibited the installation of proposed borings CPT-6 and CPT-7. Cambria has obtained another encroachment permit and has scheduled utility clearance activities on a lane-by-lane basis for the entire area across 27th Street. This is scheduled to occur on February 23, 2007. The intention of this work is to identify viable locations for boring placement prior to scheduling the field work. If safe locations can be identified, the installation of CPT-6 and CPT-7 will be scheduled. In relation to the former dispenser islands where historical borings B-6 and B-9 indicated the presence of separate phase hydrocarbons in 1995, and where boring B-19 indicated TPHg and benzene concentrations at 58,000 and 4,400 µg/l, respectively, the recent groundwater

sample obtained from between 16-20 fbg in CPT-5 near these historical borings shows further decreased concentrations with TPHg and benzene at 25,000 and 1,100 µg/l. Thus, based on the data from this sample event and the ongoing groundwater monitoring program, it appears that the highest concentrations of gasoline constituents are present within the top 20 fbg onsite. Natural attenuation of the constituents has been occurring over time.

Vertical Assessment: At all five of the on-site CPT locations, a deeper groundwater sample was obtained at depths between 31 and 37 fbg. The groundwater results are presented on Table 1 and a comparison with the shallow concentrations observed in monitoring wells at similar locations (or shallower CPT data for CPT-5) indicates significant attenuation of contaminant concentrations with depth. The deeper sample results also suggest that the highest concentrations are located beneath the former UST complex at CPT-4 and to the west at CPT-2, with decreasing concentrations to the east (CPT-5), to the north (CPT-3), and to the south (CPT-1). The maximum TPHg concentration observed at this depth was 3,200 µg/l in CPT-4, and for benzene was 180 µg/l in CPT-2.

Vapor Issues: Soil vapor probe pairs have been installed but have not yet been sampled due to the presence of water in half of the probes. Given that we are now into the rainy season, sampling of these probes will likely be further delayed. Based on a site visit performed at the adjacent residential property (664 27th Street), Cambria concludes that air sampling beneath the structure is not warranted given the amount of ventilation and air exchange with ambient outdoor air.

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RECOMMENDATIONS

- Because CPT-8 could not be installed (due to the limited integrity of the concrete slab), a soil vapor sample near MW-14 was not collected. In order to evaluate whether the groundwater conditions observed and monitored by MW-14 pose a vapor threat to the onsite residents, a vapor probe or probe pair (VP-7) should be installed at 670 27th Street, near well MW-14.

- Sampling of the soil vapor probes is recommended and will be performed when conditions allow.

- CPT-6 and CPT-7 should be re-located to a viable drilling location within 27th Street that will provide some further delineation to the west/southwest. Utility clearance activities are scheduled for February 23, 2007.

- CPT-10 should be installed to provide delineation to the northwest. A request for access was submitted to the Oakland Unified School District for access to Foster School. The agreement was submitted in September 2006. The District said that the matter was sent to their legal department, and that we should check in periodically. However, it has been more than 4 months without a response. An inquiry was made as recently as January 22, 2007, and a response from the District as to the status of the request has not been received.

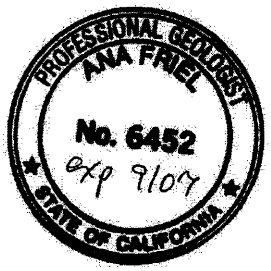
SCHEDULE

Following completion of the utility clearance work within 27th Street, Cambria will initiate encroachment and drilling permitting activities for CPT-6 and CPT-7. At the same time, we will notify the property owner at 670 27th Street of Shell's desire to install a vapor probe near MW-14. Once permitting is complete, the field activities will be scheduled. If an access agreement with the Oakland Unified School District can be executed, then CPT-10 will be scheduled for the same event. Cambria will continue to keep the ACEH apprised of the activities and schedules in the quarterly monitoring reports and also by electronic correspondence.

CLOSING

If you have any questions regarding the contents of this document, please call Ana Friel at (707) 268-3812.

Sincerely,
Cambria Environmental Technology, Inc.



Ana Friel, PG
Associate Geologist

Figures: 1 - Vicinity Map
2 – Site Plan and Historical Sample Locations
3 – CPT Groundwater Chemical Concentration Map

Tables: 1 - CPT Groundwater Analytical Data

Attachments: A - Site History
B - Permits
C – Gregg Drilling CPT Site Investigation Report
D – Disposal Documentation
E - Certified Analytical Report

cc: Denis Brown, Shell Oil Products US
Rodney & Janet Kwan, property owners of subject site
Monique Oatis, property owner at 670 27th Street in Oakland
Scott Merillat, property owner at 664 27th Street in Oakland

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12/11/03

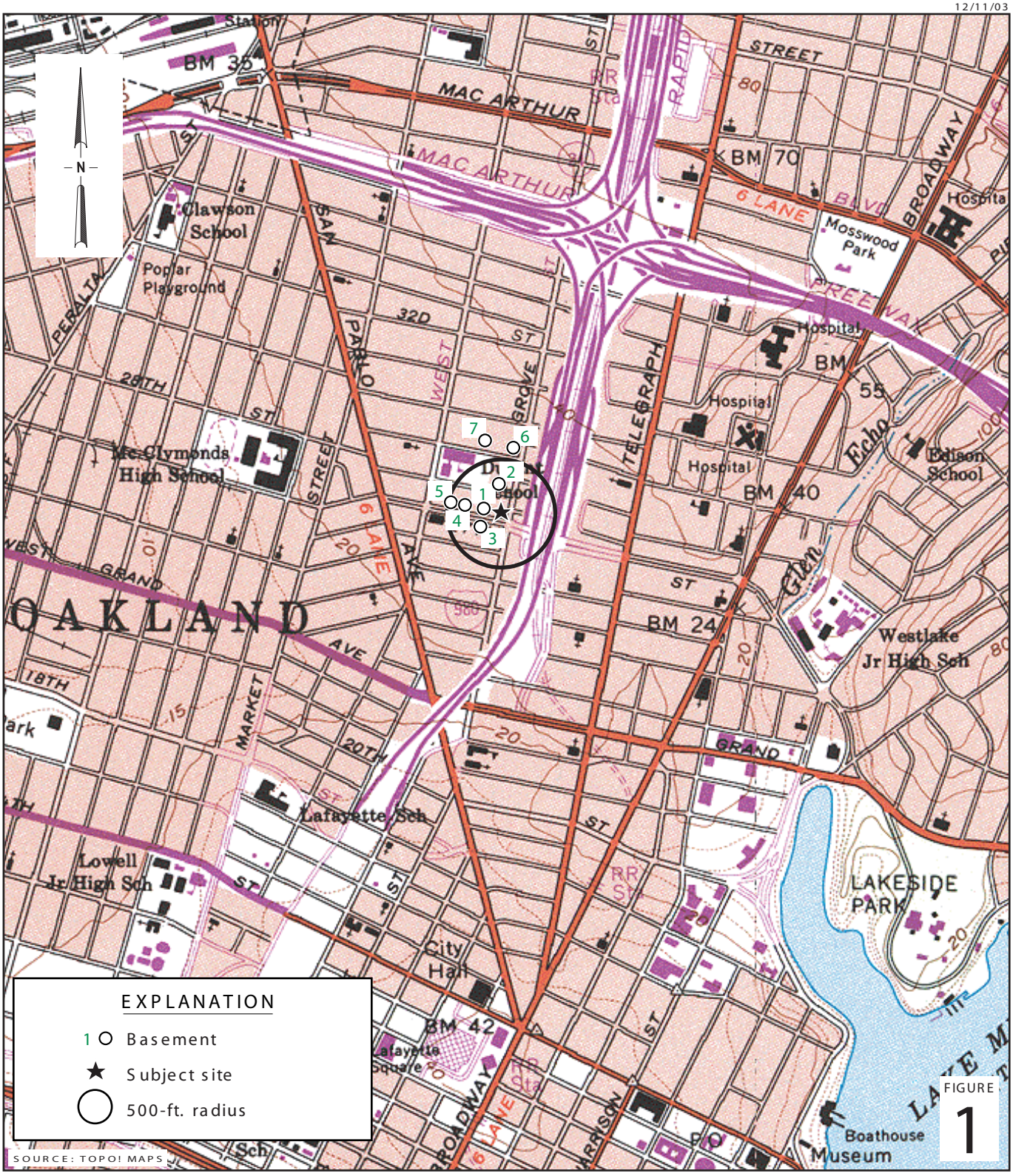

FIGURE 1

0 1/8 1/4 1/2 1

SCALE (MILES)

Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

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Vicinity Map

05/19/06

Vacant Lot
2727-29 Martin Luther King

MW-12

A.G. W/O AST

B-22 VP-6 GP-7

MW-8

GP-6

anode

B-21

MW-7

GP-5

VP-1

B-13

B-23

MW-5

PH-8 GP-8

PH-7

TRENCH

VP-5

Wooden Carport

BUILDING

MW-1

GATE

DRIVEWAY

former vent lines

former dispensers

B-8*

GP-10

B-5 GP-9 TP1-N

B-17

TP3-W VP-4

PH-6 V-1

VP-2 GP-4

B-1 TP2-S TP4-E

B-3

B-20

MW-6

PH-5

former USTs

B-18

GP-3 PH-4

V-2

MW-4

VP-3 GP-2

PH-3

B-2

PH-2

B-10

GP-1

PH-1

GATE

B-6*

B-9*

B-19

B-7*

former dispensers

B-4

MW-3

MW-2

DRIVEWAY

DRIVEWAY

DRIVEWAY

MW-14

MARTIN LUTHER KING JR. WAY

27TH STREET

EXPLANATION

PH-1	Post hole
MW-12	Monitoring well location (2/06)
MW-6	Monitoring well location (1/06)
MW-3	Monitoring well location (11/00)
MW-1	Monitoring well location (7/96)
V-1	Soil vapor well location (7/96)
VP-1	Vapor probe location (1/06)
B-23	Soil boring location (1/06)
GP-1	Soil boring location (8/05)
B-20	Soil boring location (4/02)
B-17	Soil boring location (11/00)
B-10	Soil boring location (7/96)
TP3-W	UST excavation samples (3/96)
B-1	Soil boring location (5/95)
*	Not surveyed
TP1-N	UST excavation samples (10/94)

Basemap from Virgil Chavez Land Surveying and Alameda County Assessors Parcel Map

N

0 10 20 40

Scale (ft)

Site Plan and Historical Sample Locations

FIGURE **2**

Former Shell Service Station
2703 Martin Luther King Jr Way
Oakland, California

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O:\OAKLAND 2703 MARTIN LUTHER KING JR WAY\GRAPHICS MISC\SITE PLAN.DWG

01/25/07

28TH STREET

Residential 679 28th St.

Residential 673 28th St.

Residential 669 28th St.

Residential 663 28th St.

Vacant Lot
2727-29 Martin Luther King

MW-12

Residential 665 28th St.

Residential 2719-23 Martin Luther King

CPT-10

carport

CPT-3
NR/NR/16-20'
NR/NR/21-25'
880/45/33-37'

MW-8

VP-6

MW-7

BUILDING

MW-1

GATE

DRIVEWAY

CPT-9

VP-1

VP-5

CPT-4
NR/NR/18-22'
NR/NR/25-29'
3,200/33/33-37'

MW-5

CPT-2
NR/NR/15-19'
NR/NR/25-29'
2,600/180/33-37'

VP-4

V-1

VP-2

CPT-5
NR/NR/10-14'
25,000/1,100/16-20'
220/4.0/32-36'

CPT-8

MW-14

Residential 670 27th St.

Residential 688 27th St.

Residential 664 27th St.

MW-6

MW-4

V-2

Former Shell Station
2703 Martin Luther King

CPT-1
NR/NR/16-20'
NR/NR/25-29'
<50/4.3/31-35'

VP-3

MW-3

MW-2

GATE

DRIVEWAY

DRIVEWAY

CPT-7

CPT-6

27TH STREET

median

MARTIN LUTHER KING JR. WAY

EXPLANATION

CPT-6	Proposed CPT boring location
CPT-1	CPT boring location
MW-1	Monitoring well location
V-1	Soil vapor well location
VP-1	Vapor probe location (not installed)
220/4.0/35'	TPHg/benzene in micrograms per liter (µg/L)/sample interval in feet below grade
NR	Denotes no groundwater recharge

N

0 20 40 80

Scale (ft)

Basemap from Virgil Chavez Land Surveying and Alameda County Assessors Parcel Map

K:\OAKLAND 2703 MARTIN LUTHER KING JR WAY\Graphics\CPT Chem.DWG

CPT Groundwater Chemical Concentration Map

October 2006

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FIGURE

3

Former Shell Service Station

2703 Martin Luther King Jr Way

Oakland, California

Table 1. CPT Groundwater Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Boring ID	Sample Name	Sample Interval (fbg)	Date Sampled	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Comments
CPT-1	No Sample	16-20		Sample attempted - no recharge					near MW-4
CPT-1	No Sample	25-29		Sample attempted - no recharge					
CPT-1	CPT-1-35-W	31-35	18-Oct-06	<50	**4.3**	<0.50	**6.1**	**3.0**	
CPT-2	No Sample	15-19		Sample attempted - no recharge					near MW-6
CPT-2	No Sample	25-29		Sample attempted - no recharge					
CPT-2	CPT-2-35-W	33-37	20-Oct-06	**2,600**	**180**	**69**	**55**	**290**	
CPT-3	No Sample	16-20		Sample attempted - no recharge					near MW-5
CPT-3	No Sample	21-25		Sample attempted - no recharge					
CPT-3	CPT-3-35-W	33-37	20-Oct-06	**880**	**45**	**15**	**45**	**310**	
CPT-4	No Sample	18-22		Sample attempted - no recharge					near V-1
CPT-4	No Sample	25-29		Sample attempted - no recharge					
CPT-4	CPT-4-37-W	33-37	18-Oct-06	**3,200**	**33**	**150**	**140**	**570**	
CPT-5	No Sample	10-14		Sample attempted - no recharge					near borings B-6, B-9, and B-19
CPT-5	CPT-5-20-W	16-20	18-Oct-06	**25,000**	**1,100**	**200**	**5,300**	**4,100**	
CPT-5	CPT-5-35-W	32-36	18-Oct-06	**220**	**4.0**	**2.6**	**11**	**44**	

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B

fbg = feet below grade

µg/l = micrograms per liter = parts per billion

Attachment A

Site History

ATTACHMENT A
Site History
Former Shell Service Station
2703 Martin Luther King Jr. Drive
Oakland, CA

PREVIOUS WORK

1994 UST Removal: The 2,000-gallon UST was removed on October 11, 1994 by KTW & Associates on behalf of ATW. Two soil samples (TP-1-N and TP-2-S) were collected from beneath the tank. Chemical analysis of the soil samples identified the presence of total petroleum hydrocarbons as gasoline (TPHg) at concentrations ranging from 870 milligrams per kilogram (mg/kg) to 18,000 mg/kg. Benzene concentrations in these samples ranged from 2.9 to 100 mg/kg. The tank pit remained open until March 19, 1996 when the excavation was back-filled subsequent to over-excavation by a Shell contractor.

1995 Phase I Environmental Site Assessment (ESA): In August and September 1995, Enviros Inc. (Enviros) performed a Phase I ESA for this site. Available information collected during this ESA indicates that the subject property was occupied by residential housing prior to approximately 1959. A building permit to erect a building was obtained for Shell Oil Company in February 1959. A building permit to "close lube bays with sheet metal panels" was secured for Shell Oil Company in July 1976.

In 1979, several building permits were secured for Acme to modify existing site structures. Two building permits were secured in 1979 related to the installation of a fuel pump at the site.

During a site survey in conjunction with the Phase I ESA, an excavation was observed near the southwest corner of the service building. The excavation was covered by a blue tarp. This excavation's location is consistent with that of the 2,000-gallon UST removed in 1994 by ATW, and with a large concrete slab observed in aerial photographs taken in 1971 and 1973, and a smaller concrete slab observed in aerial photographs taken in 1981 and 1985. The larger concrete slab observed in the aerial photographs was likely covering the USTs operated by Shell, and the smaller slab was likely covering the UST operated by Acme, confirming that the same location was used for both UST complexes.

1995 Subsurface Investigation: A site assessment was performed by ACC Environmental Consultants on May 23, 1995. This included drilling nine soil borings (B-1 through B-9) using a pneumatic sampling tool in the vicinity of the excavation (which formerly housed both Shell's and Acme's USTs) and the product dispenser islands, and collecting soil and groundwater samples for chemical analysis. TPHg concentrations in soil samples ranged from <20.0 to 830 mg/kg. Benzene concentrations ranged from <1.0 to 1.8 mg/kg. Separate phase hydrocarbons (SPH) were identified in water samples collected from four of the soil borings (B-1, B-5, B-6, and B-9). TPHg concentrations in the non-SPH grab groundwater samples submitted

for chemical analysis ranged from <50 to 89,000 micrograms per liter (µg/l). Benzene concentrations in the grab groundwater samples ranged from <0.5 to 21,000 µg/l.

1996 Over-Excavation: Over-excavation and back-filling of Acme's former UST excavation were performed on March 19, 1996. The excavation, originally left open to 9 fbg, was over-excavated to approximately 11 fbg. Two soil samples (TP-3-W and TP-4-E) were collected from the bottom of the over-excavated former UST area. Soil sample TP-3-W, collected from the western end of the excavation, contained 560 mg/kg TPHg, and 3.1 mg/kg benzene. Soil sample TP-4-E, collected from the eastern end of the excavation, contained 2,700 mg/kg TPHg and <3.0 mg/kg benzene. The excavation was back-filled with clean imported fill material. Soil sampling and back-filling activities are documented in Enviros' May 10, 1996 correspondence.

1996 Subsurface Investigation: In July 1996, Enviros performed additional site assessment activities. Six exploratory borings (B-10, B-11, B-12, B-13, V-1, and V-2) were drilled and sampled on July 17 and 19, 1996 using a hollow-stem auger drill rig. Borings B-11 and B-12 were completed as groundwater monitoring wells MW-1 and MW-2, and borings V-1 and V-2 were completed as soil vapor extraction wells V-1 and V-2, respectively. Soil sampling was not performed in boring V-1 due to the fact that it was installed into the back-fill material within the former UST excavation. A soil sample from below the saturated zone in boring V-2 was submitted for physical parameter analyses (porosity, permeability, fractional organic carbon content, and dry bulk density).

TPHg and benzene were not detected in soil samples collected from MW-1 (B-11), MW-2 (B-12), and B-13. TPHg was detected in soil samples collected from B-10 and V-2 at concentrations of 1.7 and 110 mg/kg, respectively. Benzene concentrations in soil samples from B-10 and V-2 were <0.0050 and 0.29 mg/kg, respectively.

Grab groundwater samples were collected from borings B-10, B-12 (MW-2), and B-13 at the depth of first encountered groundwater (approximately 8 to 11 fbg) for chemical analysis. Boring B-11 (MW-1) did not yield sufficient groundwater for grab groundwater sample collection. Monitoring wells MW-1 and MW-2 were developed and sampled on August 2, 1999 by Blaine Tech Services (Blaine) of San Jose, CA. TPHg concentrations in the groundwater samples ranged from <50 to 290,000 µg/l. Benzene concentrations ranged from <0.50 to 34,000 µg/l.

1997 Modified Phase I ESA: In February 1997, Enviros performed a modified Phase I ESA for the subject facility. A review of aerial photographs (1952 to 1994), city directories (1967 to 1993) and Sanborn maps (1912 to 1970) did not reveal evidence of an off-site source of petroleum hydrocarbons which would have impacted groundwater onsite. The properties located north and west of the subject facility appear to have been occupied by residential houses from at least 1912 to the present. The nearest gasoline stations identified in the vicinity of the subject

facility were a former Chevron station (740 27th Street at West) approximately 450 feet to the west, a former station (26th Street and Martin Luther King, Jr. Way) approximately 300 feet to the south, and a former Mobil station (554 27th Street) approximately 950 feet to the east.

2000 Sensitive Receptor Survey: In late 2000, Cambria performed a sensitive receptor survey which attempted to identify wells and underground utility conduits. Cambria obtained utility conduit maps from the City of Oakland Engineering Department to locate and map underground utility conduits which may act as preferential pathways for contaminant migration from the site. These conduit trenches are typically back-filled with materials which are more permeable than the surrounding native soils, therefore providing a path of least resistance for petroleum hydrocarbon migration within the local groundwater. Using these maps, Cambria identified the sanitary and storm sewer systems as the only utility conduits in the site vicinity which may act as preferential pathways. All other utilities are typically buried at depths which are shallower than those of the sewer systems. Conduits identified in the area are located at depths of approximately 3.5 to 9 fbg. Therefore, the potential does exist for groundwater to flow within these conduit trenches. Groundwater depth onsite historically ranges from approximately 4.5 to 10 fbg. However, since the typical groundwater flow direction onsite has generally been to the south, it is likely that any contaminant migration within the utility conduits would be limited, since the utility conduits located to the south of the site are the shallowest of all the conduits identified adjacent to the site at depths of 3.5 to 5.5 fbg. Cambria obtained well installation and destruction records from the California Department of Water Resources (DWR) in order to identify any active water producing wells in the vicinity of the site which may be at risk to petroleum hydrocarbon impact due to contaminant migration from the subsurface of the site. DWR records did not identify any existing wells within a ½-mile radius of the site.

2000 Subsurface Investigation: In November 2000, Cambria installed three soil borings (B-17, B-18 and B-19) and three groundwater monitoring wells (MW-3, MW-4 and MW-5). Up to 2,100 mg/kg TPHg and 3.3 mg/kg benzene were reported in soil samples collected. No TPHg or benzene was detected in soil samples collected from well MW-3. Except for 0.0070 mg/kg detected in soil sample B-18-7.0, no methyl tertiary butyl ether (MTBE) was detected in any of the analyzed soil samples. Tertiary butyl alcohol (TBA) was detected in soil samples MW-4-5.0 and B-19-5.0 at concentrations of 0.0079 and 0.0059 mg/kg, respectively.

Grab groundwater samples were collected from borings B-17 through B-19 at first encountered groundwater for analyses during the investigation. TPHg concentrations in grab water samples collected from the borings ranged from 58,000 to 190,000 µg/l. Benzene concentrations ranged from 4,400 to 13,000 µg/l. MTBE was detected in groundwater at concentrations of 16 and

300 µg/l from B-19 and B-17, respectively, and TBA was detected at 240 µg/l in B-19 only. No SPH was observed during the investigation.

2001 Oxygen Releasing Compound (ORC) Installation: As approved by the (ACHCSA), Blaine installed ORCs in wells V-1 and V-2 during the second quarter monitoring event on May 2, 2001. ORCs were removed during the fourth quarter 2001 monitoring event. MTBE has not been detected in these two wells since the ORCs were installed.

2002 Site Investigation: In April 2002, Cambria installed borings B-20 through B-22. Groundwater was first encountered in the borings between 8.0 fbg (B-20) and 8.8 fbg (B-21 and B-22). The maximum TPHg and benzene concentrations detected in soil were 380 and 0.17 mg/kg, respectively, in the soil sample collected from 8.0 fbg in boring B-22, located behind the station building. No TPHg was detected in soil samples collected from boring B-21. No MTBE was detected in any of the analyzed soil samples collected from borings B-20, B-21, or B-22. Up to 160,000 µg/l TPHg and 18,000 µg/l benzene were reported in grab groundwater samples collected from borings B-20, B-21, and B-22. No MTBE was detected in grab groundwater samples collected from the borings. The complete report of findings was included in Cambria's June 21, 2002 *Site Investigation Report*. This document included recommendations for additional activities; however, a response from ACHCSA was never received.

2003 - 2005 Oxygen Releasing Compound (ORC) Installation: Although agency approval was not received, Shell proactively installed ORC in wells MW-5 and V-2 during first quarter of 2003. The ORCs were replaced on a semi-annual basis. The use of ORC was discontinued during the first quarter 2005, at Shell's request.

May 2005 Agency Meeting: Since no agency response was received to the June 2002 *Site Investigation Report* that contained recommendations for additional investigation, and since monitoring continued to indicate elevated concentrations of volatile constituents in groundwater, Shell authorized Cambria to prepare a work plan to investigate subsurface soil, groundwater, and soil vapor conditions along the property boundaries and at select locations on site. A new case worker was assigned to this project in early 2005, and following a meeting with the new case worker, technical comments and work plan approval were received in ACEH correspondence dated June 6, 2005. On August 15, 2005, Cambria submitted correspondence providing responses to the technical comments, notification of field work, and a request for extension for the report of findings. In correspondence dated August 19, 2005, ACEH granted the extension.

2005 Soil Vapor Investigation: From August 28 through 31, 2005, Cambria installed ten soil borings (GP-1 through GP-10). In soil, TPHg was detected from borings GP-1 at 10.0 fbg, GP-2 at 4.5 fbg, GP-3 at 5.0 and 8.5 fbg, GP-6 at 9.5 fbg, and GP-7 at 9.5 fbg at concentrations ranging from 1.5 to 3,300 mg/kg and benzene was detected from borings GP-2 at 4.5 fbg, and GP-3 at 5.0

and 8.5 fbg at concentrations ranging from 0.027 to 15 mg/kg. In groundwater, TPHg was detected in all four borings (GP-1, GP-3, GP-6, and GP-7) at concentrations ranging from 9,100 to 140,000 µg/l and benzene was also detected in all four groundwater samples at concentrations ranging from 320 to 17,000 µg/l. Soil vapor samples were collected from each boring and TPHg was detected in GP-1 through GP-10 at concentrations ranging from 350 to 71,000,000 micrograms per cubic meter (ug/m^3). Benzene was detected in soil samples collected from borings GP-1 through GP-3 and GP-5 through GP-10 at concentrations ranging from <4.1 to 170,000 ug/m^3. A complete discussion and presentation of these activities and findings is included in Cambria's November 15, 2005 *Site Investigation Report*. This report also included recommendations for performing a door-to-door survey within 300 feet of the site to confirm basement locations, building construction, and potential sources; preparing work plans for pilot testing and plume delineation. Cambria submitted the November 22, 2005 *Feasibility Study Work Plan* and the December 16, 2005 *Plume Delineation Work Plan*, which Alameda County Environmental Health (ACEH) staff approved in their December 29, 2005 correspondence.

December 2005 – Door-to-Door Survey: Cambria conducted a door-to-door survey within 300-feet of the subject site for wells, basements, and foundation type to identify building construction and potential vapor receptors. Questionnaires were sent to 110 properties and responses for 25 properties were received as of January 13, 2006. Tabulated data and a list of properties included in the survey, and which completed surveys were received was included in our *Door to Door Survey Report, Access Agreement Update, and Status/Schedule Update* submittal dated January 15, 2006. Of the 25 responses received, none of the properties had basements. Three properties were denoted as vacant; nine properties contained buildings constructed with slab-on-grade foundations; three contained buildings constructed with perimeter foundations. Responses for the other 10 properties were either left blank, marked as unknown, or the response was contradictory or unclear. Regarding underground storage tanks, 17 responses were negative, four responses were marked as "unknown", and four responses were left blank. With the exception of the monitoring wells at the subject site, no wells were identified through the survey activities.

January 2006 – Subsurface Investigation: On January 3 and 4, 2006, Cambria advanced three monitoring wells (MW-6 through MW-8), one soil boring (B-23), and six soil vapor probes (VP-1 through VP-6). In soil, TPHg was detected from borings MW-6 at 10.0 and 15.5 fbg, MW-7 at 11.5 and 16.5 fbg, MW-8 at 10.5 and 19 fbg, and B-23 at 10, 15.5, and 19.5 fbg at concentrations ranging from 7.1 to 3,800 mg/kg. Benzene was detected from borings MW-6 at 19.5 fbg, MW-8 at 19.5 fbg, and B-23 at 15.5 and 19.5 fbg at concentrations ranging from 0.0090 to 33 mg/kg. The vapor probes were not installed due to saturated soil conditions. A complete discussion and

presentation of these activities and findings is included in Cambria's April 14, 2006 *Site Investigation Report, and First Quarter 2006 – Groundwater Monitoring Report*.

January 2006 – DPE Pilot Test: Cambria conducted a five-day dual-phase extraction pilot test the week of January 16, 2006. The details and results were presented in Cambria's *Pilot Test Report* dated March 14, 2006. DPE was performed on wells V-1, V-2, MW-6, MW-7, MW-4, MW-5, and MW-8. On January 20, 2006, a constant vacuum DPE test was conducted on well MW-6. The report concluded **1)** the absence of vapor phase concentrations (and groundwater concentrations) from well V-1 indicates that the former UST excavation does not contain residual source material; **2)** high sustained and increasing vapor concentrations suggest source material is present in the vicinity of wells V-2, MW-5, and MW-8; **3)** variability in extraction flow rates across the site may reflect heterogeneities in subsurface soils or may suggest preferential pathways; and **4)** the extremely high effective radius of influence calculated for wells MW-5 and MW-8 during DPE testing on well MW-7 supports the presence of a preferential pathway in the vicinity of these wells. The data from the DPE pilot test suggests that DPE is feasible at this site. The groundwater table was effectively drawn down by DPE and moderate vapor extraction flow rates were yielded from some of the extraction points. Although DPE is deemed feasible, Cambria did not recommend implementing DPE at this site. The extraction points that yielded the highest vapor concentrations did not yield an effective vapor extraction flow rate. Conversely, low vapor concentrations were yielded from the extraction point that did yield an effective vapor extraction flow rate. Therefore, DPE is not considered feasible in the target areas at this site.

February 2006 – Install Offsite Wells MW-12 and MW-14: The December 20, 2005 *Plume Delineation Work Plan* proposed offsite activities including the installation of seven offsite monitoring wells and eight soil vapor probes. Based on responses from only two of the offsite property owners, Cambria completed a portion of the scope of work recommended. Monitoring wells MW-12 and MW-14 were installed at two offsite properties to 20 and 14.5 fbg, respectively. Groundwater was first encountered during drilling activities in borings MW-12 and MW-14 at 14.0 and 11.0 fbg, respectively. None of the soil samples from well MW-12 indicated the presence of any TPHg or BTEX. The 5-fbg sample from MW-14 also did not contain any reportable concentrations. TPHg was reported in the 10- and 14-fbg samples from MW-14 at concentrations of 32 and 970 mg/kg, respectively. Benzene was reported in the same two samples at concentrations of 0.0083 and 2.3 mg/kg, respectively. Fuel oxygenates were requested on the 10-fbg and 14-fbg soil samples from MW-14, and none were reported above the detection limits. These activities are documented in Cambria's May 25, 2006 *Subsurface Investigation Report.*

April 2006 – Survey and Site Visit: In addition to surveying the new wells, Cambria identified historical boring locations from patches on the ground surface, historical excavation edges, trenches, and other site features, and requested that they be included in the survey. Report figures since May 2006 have included the new survey data. Also, during the site visit, an inspection inside the building identified two bathrooms. A floor drain was observed in the northern-most bathroom. Standing liquid was present in the floor drain and automotive parts and cleaners were stored in this area. Thus, a sample from the floor drain was collected and submitted for analyses of volatile organic compounds (VOCs) by EPA Method 8260 and semi-volatile organic compounds (SVOCs) by EPA Method 8270. The floor drain sample was analyzed for VOCs and SVOCs. The results indicated the presence of carbon disulfide (3.69 µg/l), ethylbenzene (0.610 µg/l) and toluene (0.770 µg/l). This information was reported in Cambria's May 25, 2006 *Subsurface Investigation Report.*

May 2006 – Geophysical Survey: As recommended in Cambria's May 25, 2006 *Subsurface Investigation Report,* a geophysical study was performed on May 22, 2006. The objectives of this effort were to determine whether or not a waste oil UST was in the ground in the northwest portion of the property, and to evaluate the presence of subsurface utilities in this area that may act as preferential pathways, including the mapping of the sewer line from the floor drain found inside the northwest corner of the building during the April 19, 2006 site inspection. The results did not identify the presence of a UST on the northwest corner of the site, but did find another vent line located behind the northeast corner of the station building. A subsurface electric line was traced from the station building to the western property boundary, and an unidentified subsurface utility was traced from the northwest corner of the station building to the southwest, near MW-5 and toward MW-6. The presence of the unknown utility line in the northwest corner confirms the observations of a possible preferential pathway in this area based on the dual-phase extraction pilot test performed in January 2006. NORCAL was unable to run a line down the floor drain inside of the building due to the trap in the line, so the sewer cleanout was found on the exterior of the building. Accessing the cleanout would have resulted in damage to the cap, and the property owner would not grant permission for Cambria to open the cleanout and repair any damage. Thus, the location, direction, and depth of the sewer line in this area are still unknown. However, based on the GPR survey that was performed to try to locate a non-metallic sewer line, NORCAL concludes that the sewer line may be more than 4 feet below grade, since the GPR was unable to identify the line. This information was presented in Cambria's July 25, 2006 *Status Update, Report of Geophysical Survey, and Request for Agency Meeting.*

ATTACHMENT A
Site History
Former Shell Service Station
2703 Martin Luther King Jr. Drive
Oakland, CA

August 2006 – Agency Meeting: On August 2, 2006, a meeting between Shell and the ACEH was held to discuss results of recent activities, the status of pending activities, and an agreed upon course for proposed additional activities. During that meeting, the parties agreed to a scope of work, which was presented in Cambria's August 31, 2006 *Subsurface Investigation Work Plan*. The objectives detailed in that work plan were to:

- Obtain detailed lithologic information onsite and offsite by continuous sampling using electronic logging by cone penetration testing (CPT) technique in five onsite and five offsite borings labeled CPT-1 through CPT-10;
- Collect shallow soil gas samples from approximately 5 feet below grade (fbg) near offsite monitoring well MW-14 (CPT-8);
- Obtain groundwater samples from first encountered groundwater from areas where wells have not been installed (CPT-5 through CPT-7, CPT-9, and CPT-10);
- Collect groundwater from deeper within the first aquifer at all locations from approximately 20-25 fbg, depending on the CPT log results;
- Collect groundwater samples from a deeper interval at select locations for vertical groundwater profiling (CPT-4, CPT-6, CPT-8, and CPT-9);
- Install the onsite vapor probes to allow for the future collection of soil gas samples near the western property boundary;
- Collect ambient air samples from the above-ground basement area at 664 27th Street for chemical analysis.

This scope of work was approved by the ACEH in correspondence dated September 5, 2006.

1996 to Present – Ongoing Groundwater Monitoring: Quarterly groundwater monitoring has been ongoing at the site since August 1996 and currently includes onsite monitoring wells MW-1 through MW-8, VP-1, and VP-2, and offsite monitoring wells MW-12 and MW-14. Fuel oxygenates are not a significant component of the groundwater plumes, although some detections of di-isopropyl ether and tertiary butyl alcohol have been observed. Overall, the groundwater flow direction is primarily to the west, with some radial components on site to the northwest and southwest. Historically, monitoring wells MW-1, MW-2, MW-3, and MW-12 have shown little or no impact from petroleum hydrocarbons. Maximum historical concentrations of TPHg and benzene have been observed in onsite monitoring well MW-5. The fourth quarter 2006 sample event (November) reported maximum concentrations of TPHg and benzene at 83,000 and 7,000 µg/l, respectively. Downgradient monitoring well MW-14 reported TPHg and benzene at 29,000 and 4,400 µg/l, respectively, for this same event.

Attachment B

Permits

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 09/27/2006 By jamesy

Permit Numbers: W2006-0854
Permits Valid from 10/16/2006 to 10/20/2006

Application Id: 1159290661629
Site Location: 2703 MLK Jr. Wy, Oakland, CA
Project Start Date: 10/16/2006

City of Project Site: Oakland

Completion Date: 10/20/2006

Applicant: Cambria - Matthias Kennerknecht
5900 Hollis St #A, Emeryville, CA 94608
Phone: 510-420-3308

Property Owner: Shell Oil Products Co.
20945 Wilmington, Carson, CA 90810
Phone: --

Client: ** same as Property Owner **

Total Due: $200.00
Receipt Number: WR2006-0448 **Total Amount Paid:** $200.00
Payer Name : Cambria Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 10 Boreholes
Driller: Gregg Drilling - Lic #: 485165 - Method: CPT

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2006-0854	09/27/2006	01/14/2007	10	2.00 in.	40.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

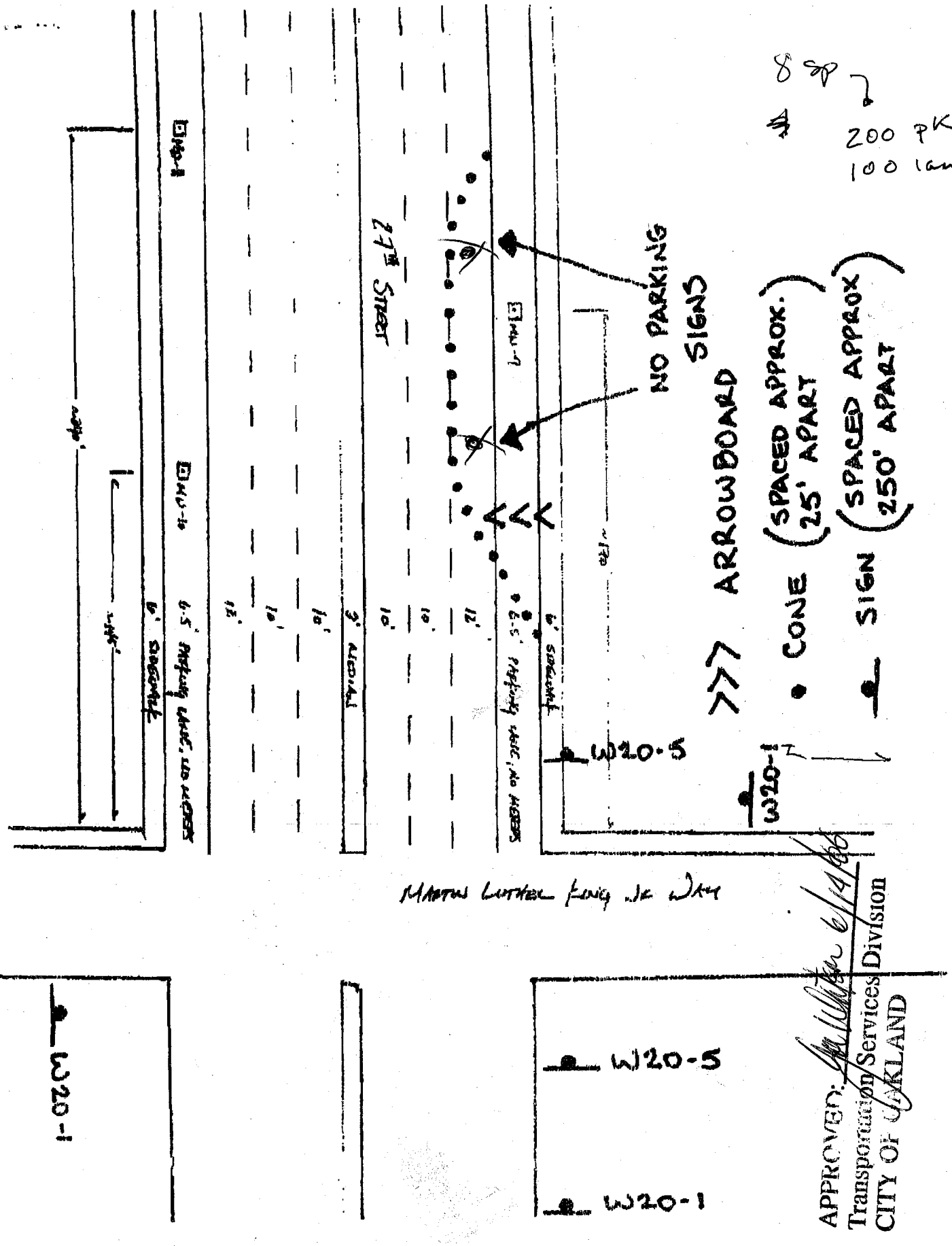
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.



APPROVED: 6/14/06
Transportation Services Division
CITY OF OAKLAND

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/15/2005 By jamesy **Receipt Number: WR2005-2250**
Permits Issued: W2005-1191 to W2005-1192 **Permits Valid from 01/03/2006 to 01/06/2006**

Application Id: 1134694746448 **City of Project Site:** Oakland
Site Location: 2703 Martin Luther King JR Way
Project Start Date: 01/03/2006 **Completion Date:** 01/06/2006

Applicant: Cambria Environmental - Bill Deboer **Phone:** 510-420-3369
5900 Hollos Street, Emeryville, CA 94608
Property Owner: Shell Oil Products Co **Phone:** --
20945 Wilmington, Carson, CA 90810
Client: ** same as Property Owner **
Contact: Bill Deboer **Phone:** --
Cell: 510-385-0299

Total Due: $500.00
Total Amount Paid: $500.00
Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 1 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: auger **Work Total: $300.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2005-1191	12/15/2005	04/03/2006	MW-8	10.00 in.	4.00 in.	0.50 ft	20.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall contact George Bolton for an inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

Borehole(s) for Investigation-Contamination Study - 7 Boreholes
Driller: Gregg Drilling-VP-1 to VP-6 at 6ft. & B-23 at 20ft. - Lic #: 485165 - Method: auger **Work Total: $200.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2005-1192	12/15/2005	04/03/2006	7	10.00 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact George Bolton for an inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 2703 M L KING JR WY Parcel# 009 -0691-003-01 Appl# X0601051

Descr soil boring in lieu of installing monitoring wells in front of 668 27th St Permit Issued 09/25/06

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	KWAN RODNEY & JANET				
Contractor	GREGG DRILLING & TESTING, INC.		(925)313-5800	485165	C57
Arch/Engr					
Agent	CAMBRIA ENVIRO/ S DALIE	X	(510)750-0206		
Applic Addr					

$414.25 TOTAL FEES PAID AT ISSUANCE

$61.00	Applic	$300.00	Permit
$.00	Process	$34.30	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$18.95	Tech Enh

ADDRESS:

DIST:

JOB SITE

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

Permit valid for 90 days from date of issuance.

PERMIT NUMBER	SITE ADDRESS/LOCATION
X 0 6 0 1 0 5 1 *	2703 MARTIN LUTHER KING JR. WAY
APPROX. START DATE: 10/16/06 / APPROX. END DATE: 10/19/06	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS: C57 - 485 - 165	CITY BUSINESS TAX #: 585-033

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.

3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

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 # BB1060261 Company Name Seabright Insurance Svcs, Inc.

☐ 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.

X _____ 9/25/06

Signature of Permittee ☑ Agent for ☐ Contractor ☐ Owner — Date

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

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 2703 M L KING JR WY Parcel# 009 -0691-003-01 Appl# OB060633

Block traffic & reserve parking per approved TCP OK/TCL Permit Issued 09/25/06
soil boring in lieu of installing monitoring wells
in front of 668 27th St

Nbr of days: 2 Linear feet: 275
Effective: 10/16/06 Expiration: 10/17/06

SHORT TERM NON-METERED

		Applcnt	Phone#	Lic#	--License Classes--
Owner	KWAN RODNEY & JANET				
Contractor	GREGG DRILLING & TESTING, INC.		(925)313-5800	485165	C57
Arch/Engr					
Agent	CAMBRIA ENVIRO/ S DALIE	X	(510)750-0206		
Applic Addr					

JOB SITE

$448.68 TOTAL FEES PAID AT ISSUANCE

$61.00	Applic	$330.00	Permit
$.00	Process	$37.15	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$20.53	Tech Enh

ADDRESS:

DIST:

TCP needs to be approved by Transportation Services every 30 days or whenever deviated from the previously approved plan.

Applicant: _____ 9/25/6

Issued by: _____ "

Attachment C

Gregg Insitu, Inc.
CPT Site Investigation Report

GREGG IN SITU, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

October 23, 2006

Cambria Env.
Attn: Ana Friel
408 Seventh St., Suite A
Eureka, California 95501

Subject: CPT Site Investigation
Former Shell, Martin Luther King Way
Oakland, California
GREGG Project Number: 06-356MA

Dear Ms. Friel:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	Resistivity Cone Penetration Tests	(RCPTU)	☐
5	UVIF Cone Penetration Tests	(UVIFCPTU)	☐
6	Groundwater Sampling	(GWS)	☐
7	Soil Sampling	(SS)	☐
8	Vapor Sampling	(VS)	☐
9	Vane Shear Testing	(VST)	☐
10	SPT Energy Calibration	(SPTE)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-01	10/19/06	40	20NR, 29NR, 35	-	-
CPT-02	10/20/06	40	19NR, 29NR, 37	-	-
CPT-03	10/20/06	40	20NR, 25NR, 35	-	-
CPT-04	10/19/06	40	22NR, 29NR, 37	-	34.8
CPT-05	10/19/06	40	14NR, 20, 36	-	-
CPT-09	10/16/06	18	-	-	18.0

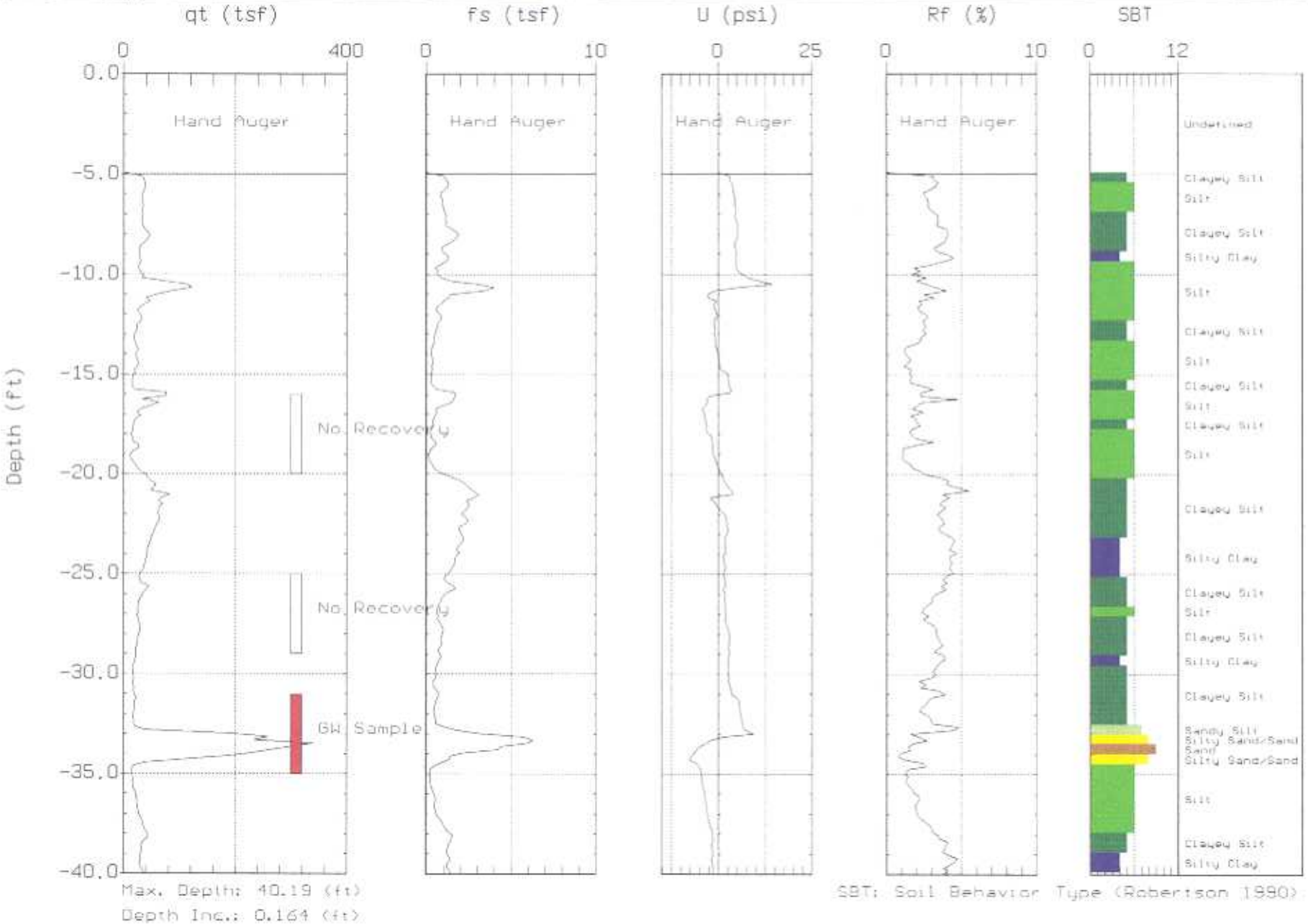
950 Howe Rd • Martinez, California 94553 • (925) 313-5800 • FAX (925) 313-0302
OTHER OFFICES: LOS ANGELES • HOUSTON • SOUTH CAROLINA
www.greggdrilling.com

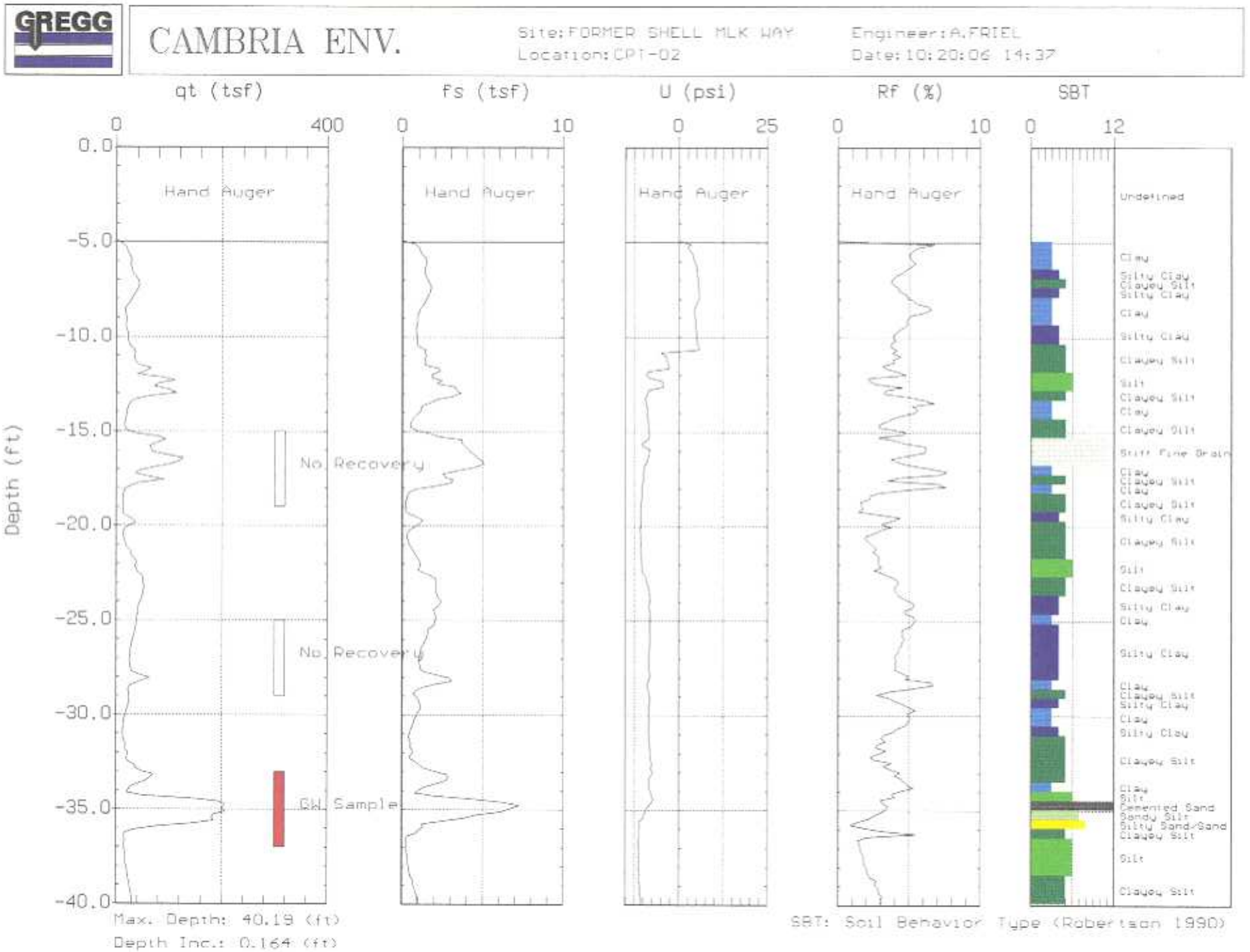
GREGG

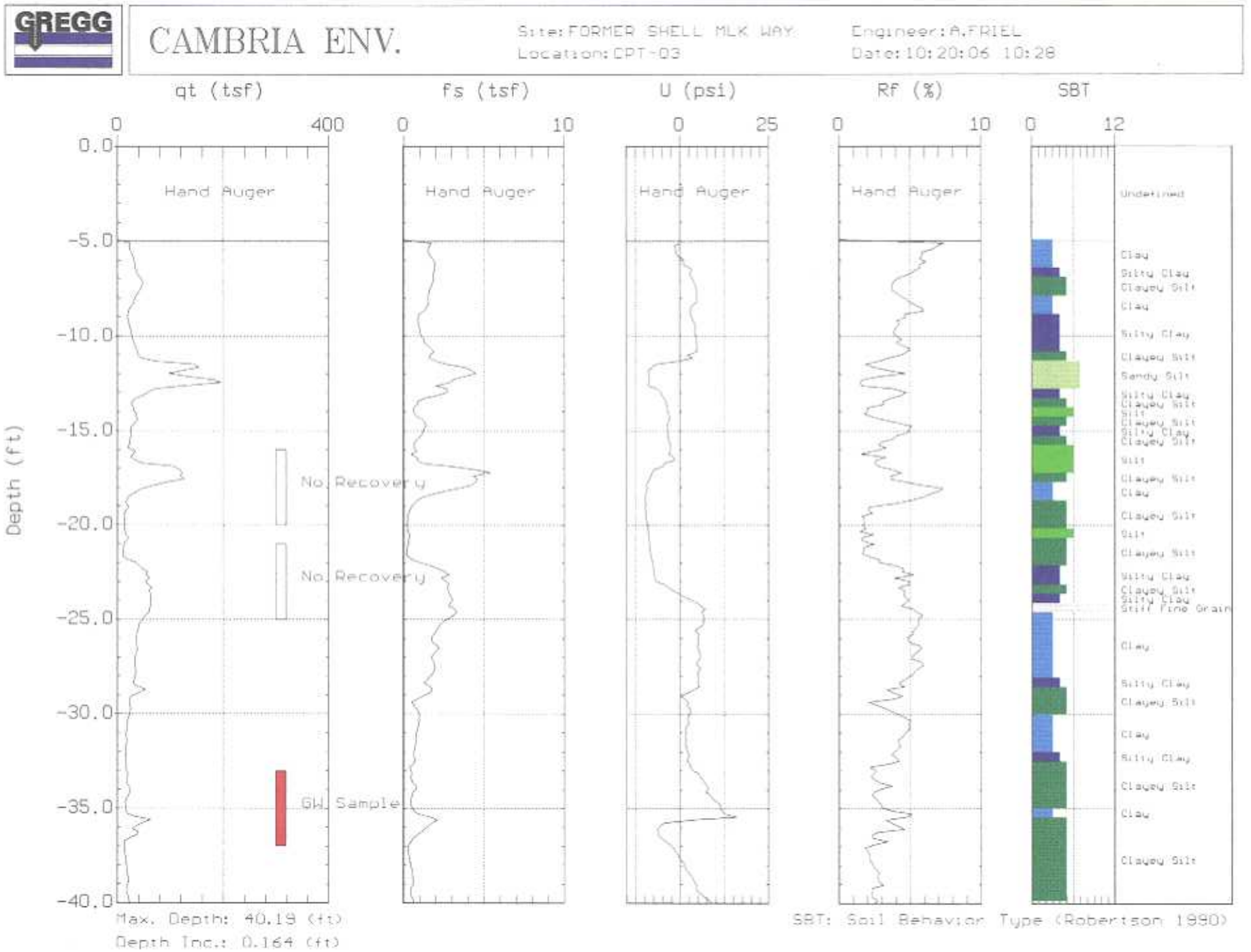
CAMBRIA ENV.

Site: FORMER SHELL MLK WAY
Location: CPT-01

Engineer: A.FRIEL
Date: 10:18:06 14:39




GREGG
CAMBRIA ENV.
Site: FORMER SHELL MLK WAY
Location: CPT-02
Engineer: A.FRIEL
Date: 10:20:06 14:37
qt (tsf)
Fs (tsf)
U (psi)
Rf (%)
SBT
0
400
10
25
12
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
Depth (ft)
Hand Auger
No Recovery
No Recovery
GW Sample
Undefined
Clay
Silty Clay
Clayey Silt
Silty Clay
Clay
Silty Clay
Clayey Silt
Silt
Clayey Silt
Clay
Clayey Silt
Stiff Fine Grain
Clay
Clayey Silt
Clay
Clayey Silt
Silty Clay
Clayey Silt
Silt
Clayey Silt
Silty Clay
Clay
Silty Clay
Clay
Clayey Silt
Silty Clay
Clay
Silty Clay
Clayey Silt
Clay
Silt
Cemented Sand
Sandy Silt
Silty Sand/Sand
Clayey Silt
Silt
Clayey Silt
Max. Depth: 40.19 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)

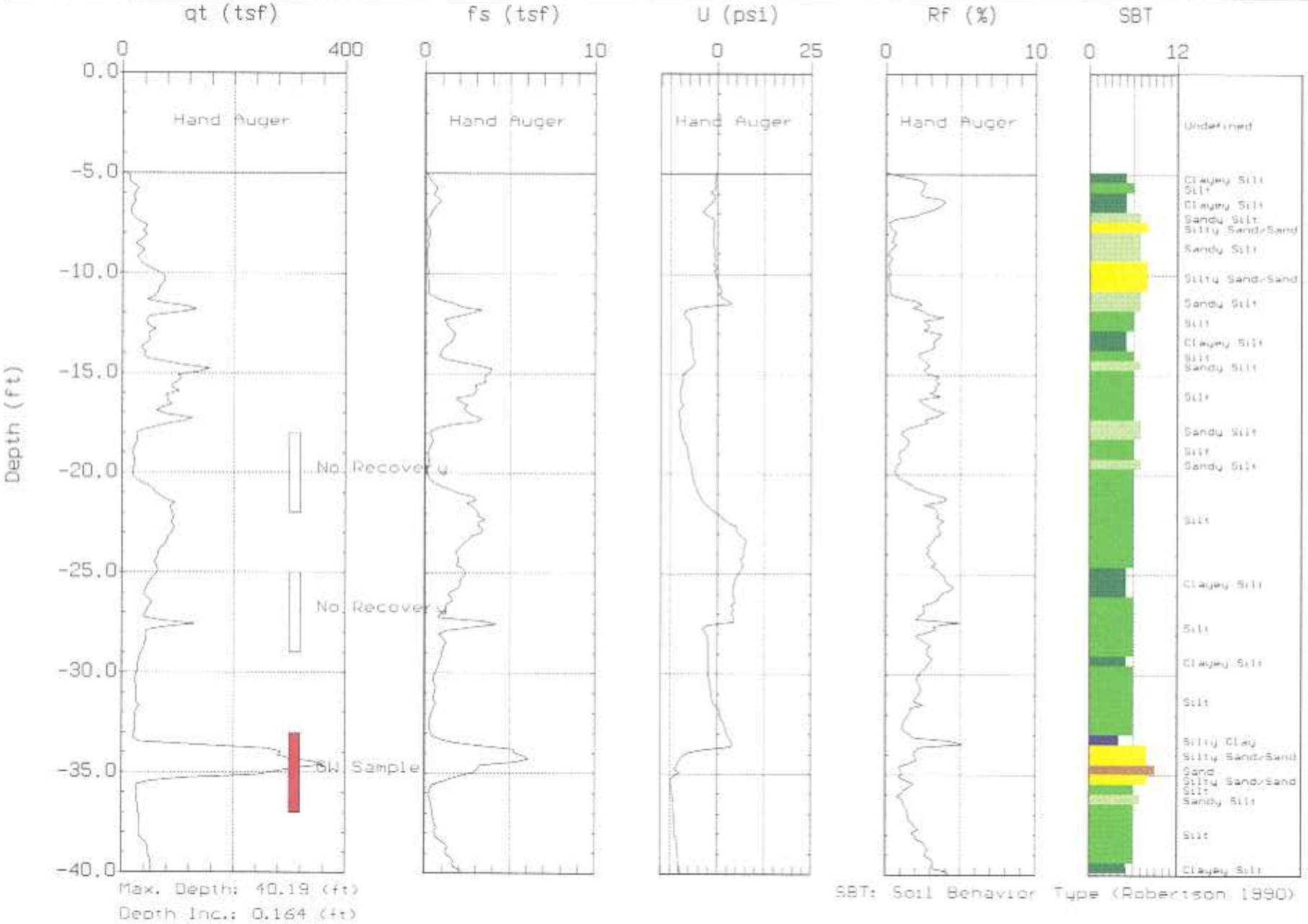

GREGG
CAMBRIA ENV.
Site: FORMER SHELL MLK WAY
Location: CPT-03
Engineer: A.FRIEL
Date: 10:20:06 10:28
qt (tsf)
fs (tsf)
U (psi)
Rf (%)
SBT
0
400
10
25
12
Depth (ft)
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
Hand Auger
No Recovery
No Recovery
GW Sample
Undefined
Clay
Silty Clay
Clayey Silt
Sandy Silt
Silt
Stiff Fine Grain
Max. Depth: 40.19 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)

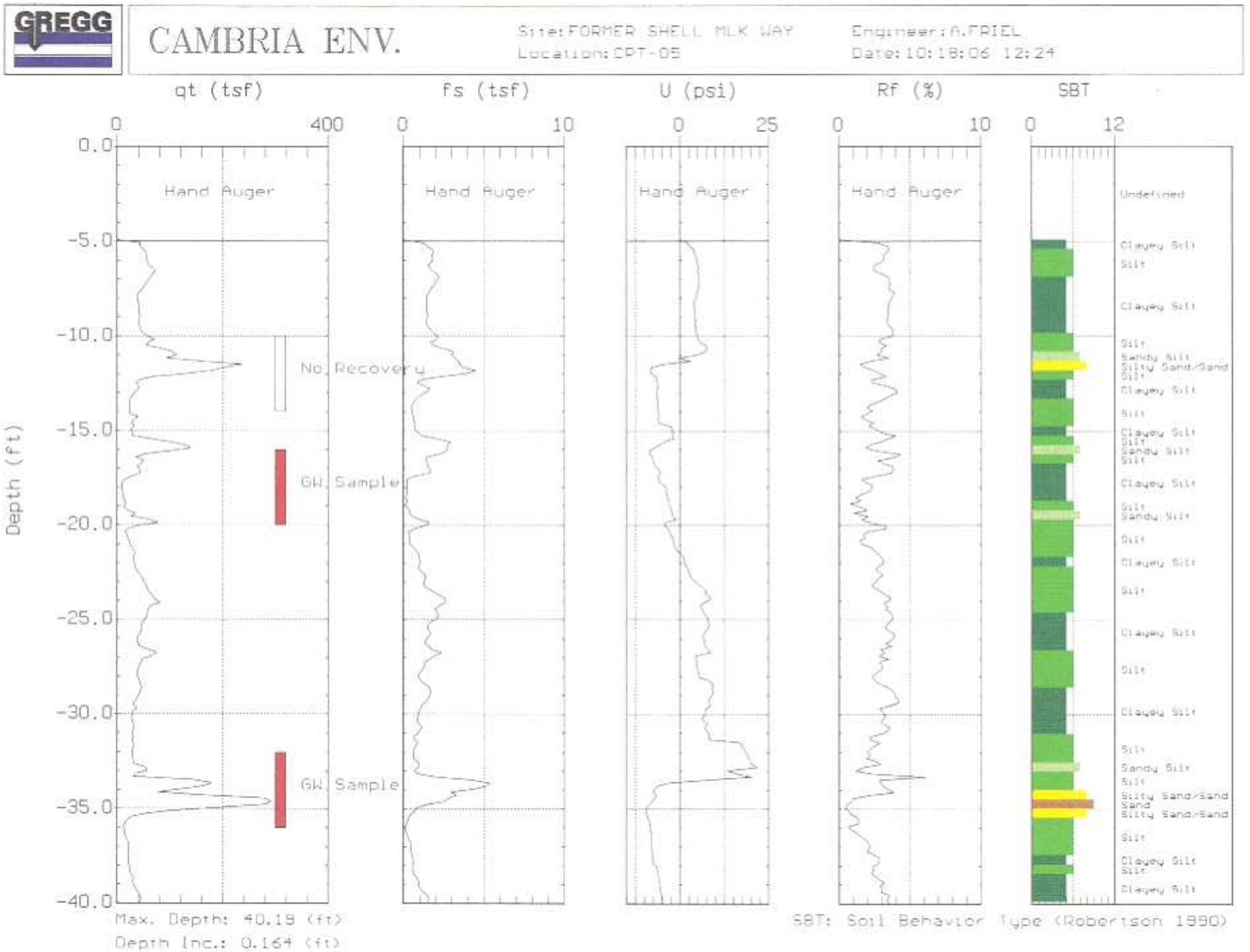
GREGG

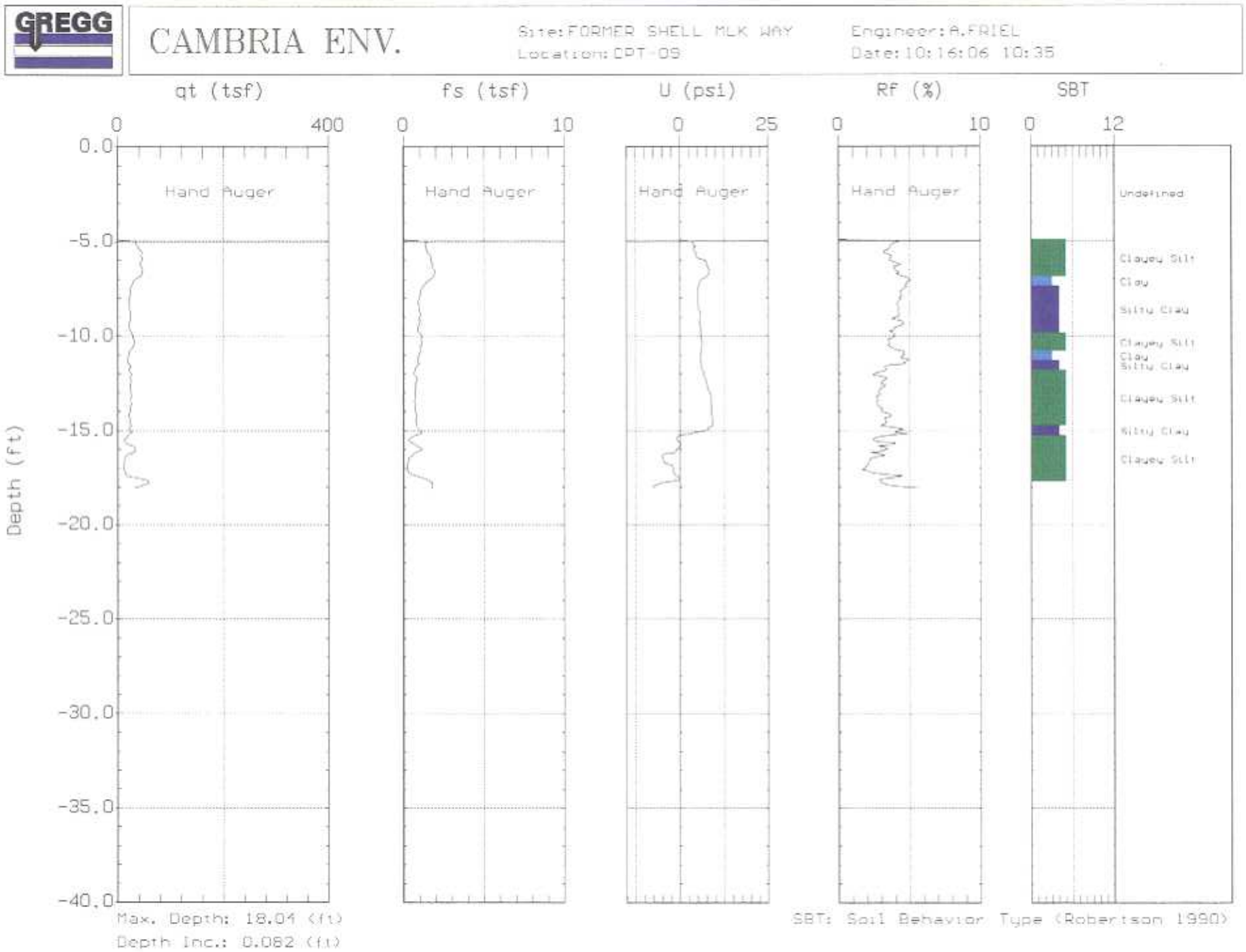
CAMBRIA ENV.

Site: FORMER SHELL MLK WAY
Location: CPT-04

Engineer: A.FRIEL
Date: 10:18:06 09:54



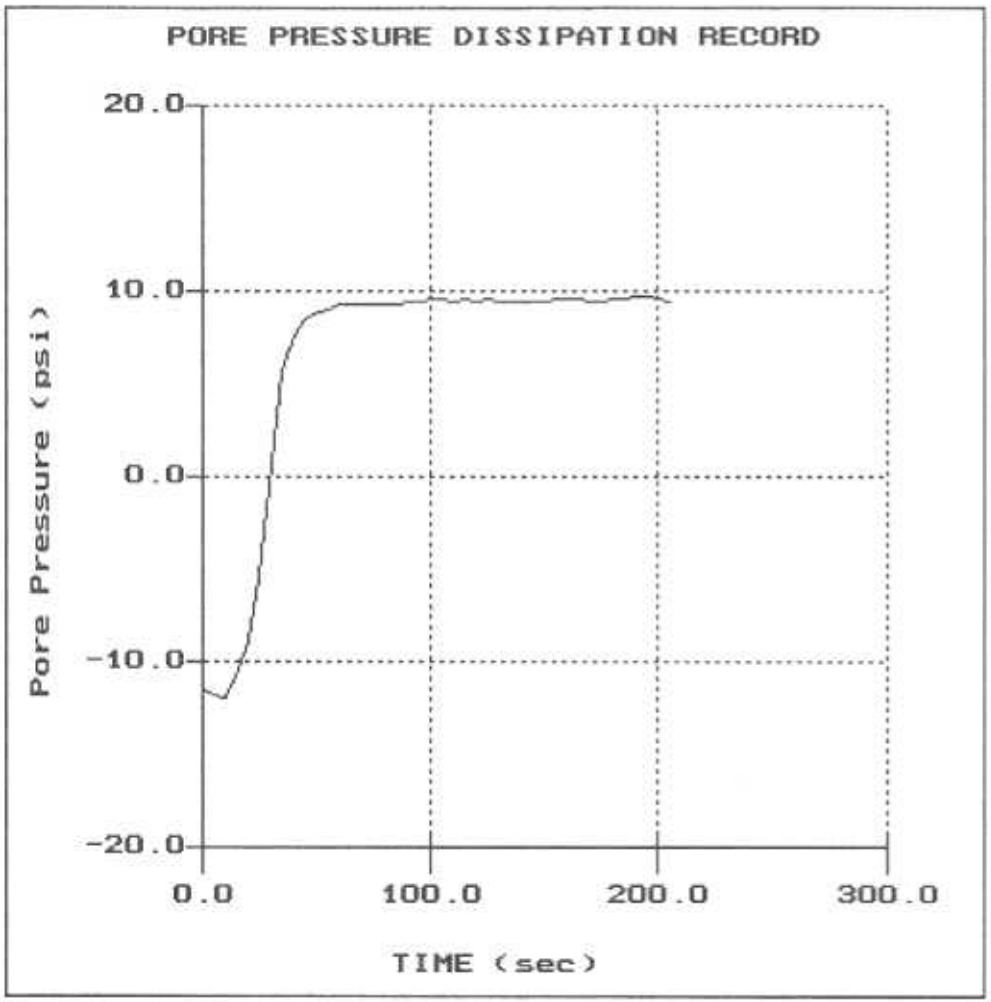

GREGG
CAMBRIA ENV.
Site: FORMER SHELL MLK WAY
Location: CPT-05
Engineer: A.FRIEL
Date: 10:18:06 12:24
qt (tsf)
fs (tsf)
U (psi)
Rf (%)
SBT
0
400
10
25
12
Hand Auger
No Recovery
GW Sample
GW Sample
Depth (ft)
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
Undefined
Clayey Silt
Silt
Sandy Silt
Silty Sand/Sand
Max. Depth: 40.19 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)


GREGG
CAMBRIA ENV.
Site: FORMER SHELL MLK WAY
Location: CPT-05
Engineer: A.FRIEL
Date: 10:16:06 10:35
qt (tsf)
fs (tsf)
U (psi)
Rf (%)
SBT
0
400
10
25
12
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
Depth (ft)
Hand Auger
Undefined
Clayey Silt
Clay
Silty Clay
Max. Depth: 18.04 (ft)
Depth Inc.: 0.082 (ft)
SBT: Soil Behavior Type (Robertson 1990)

CAMBRIA ENV.

Site:FORMER SHELL MLK WAY
Location:CPT-04

Engineer:A.FRIEL
Date:10:18:06 09:54

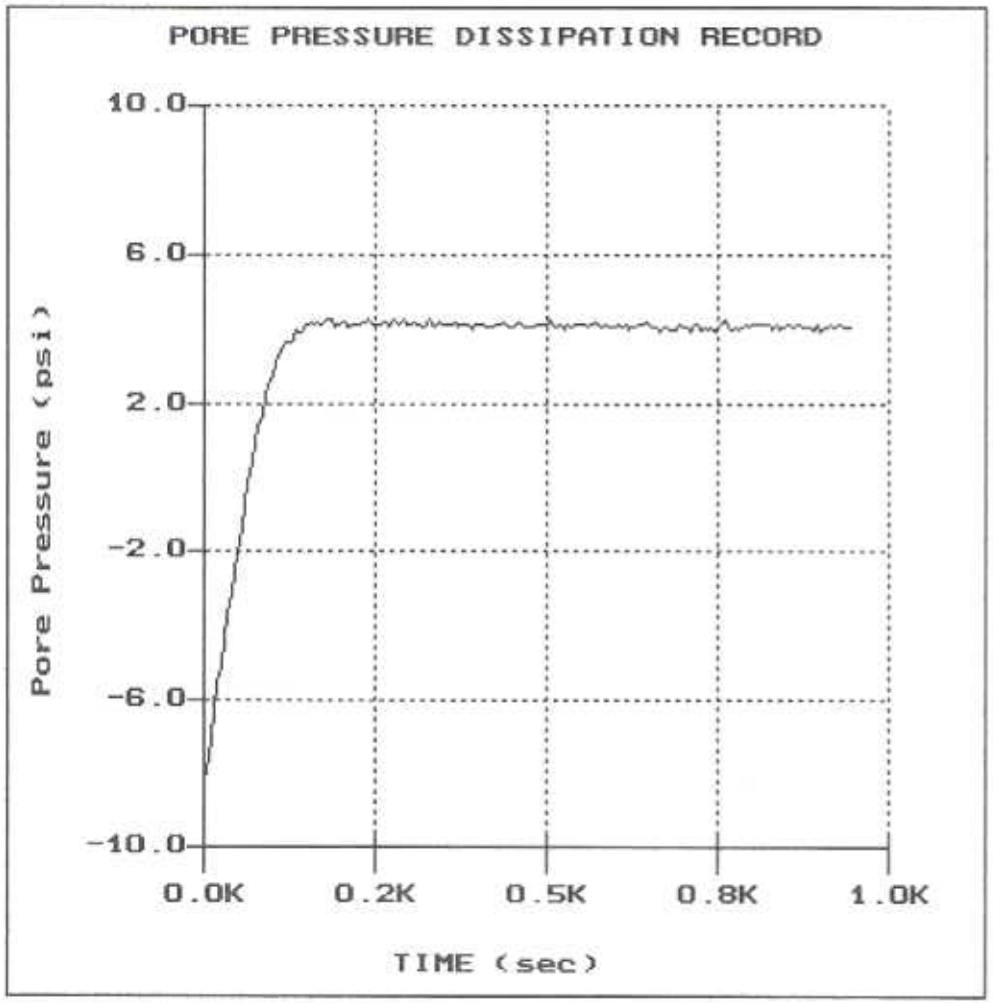


File: 356C04.PPC
Depth (m): 10.60
(ft): 34.78
Duration : 205.0s
U-min: -11.92 10.0s
U-max: 9.66 195.0s

CAMBRIA ENV.

Site:FORMER SHELL MLK WAY
Location:CPT-09

Engineer:A.FRIEL
Date:10:16:06 10:35

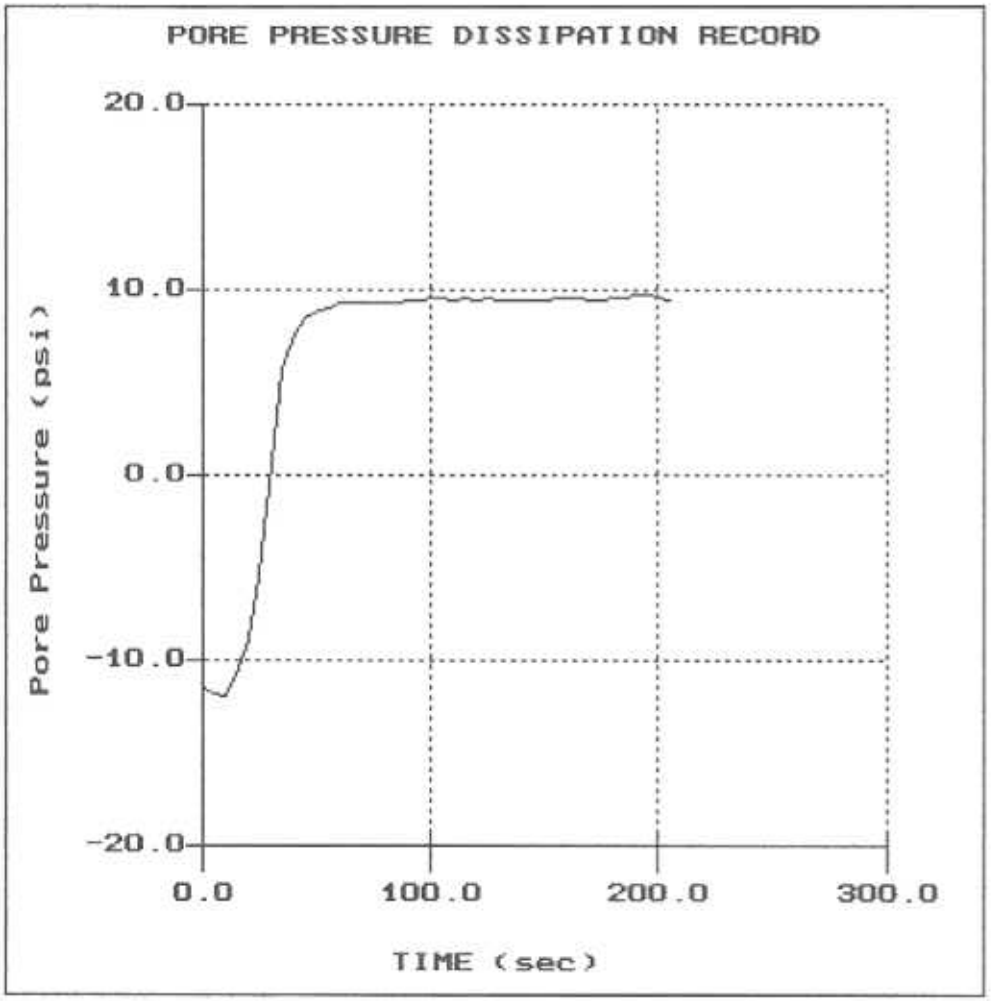


File: 356C09.PPC
Depth (m): 5.50
(ft): 18.04
Duration : 945.0s
U-min: -8.18 0.0s
U-max: 4.27 240.0s

CAMBRIA ENV.

Site:FORMER SHELL MLK WAY
Location:CPT-04

Engineer:A.FRIEL
Date:10:18:06 09:54

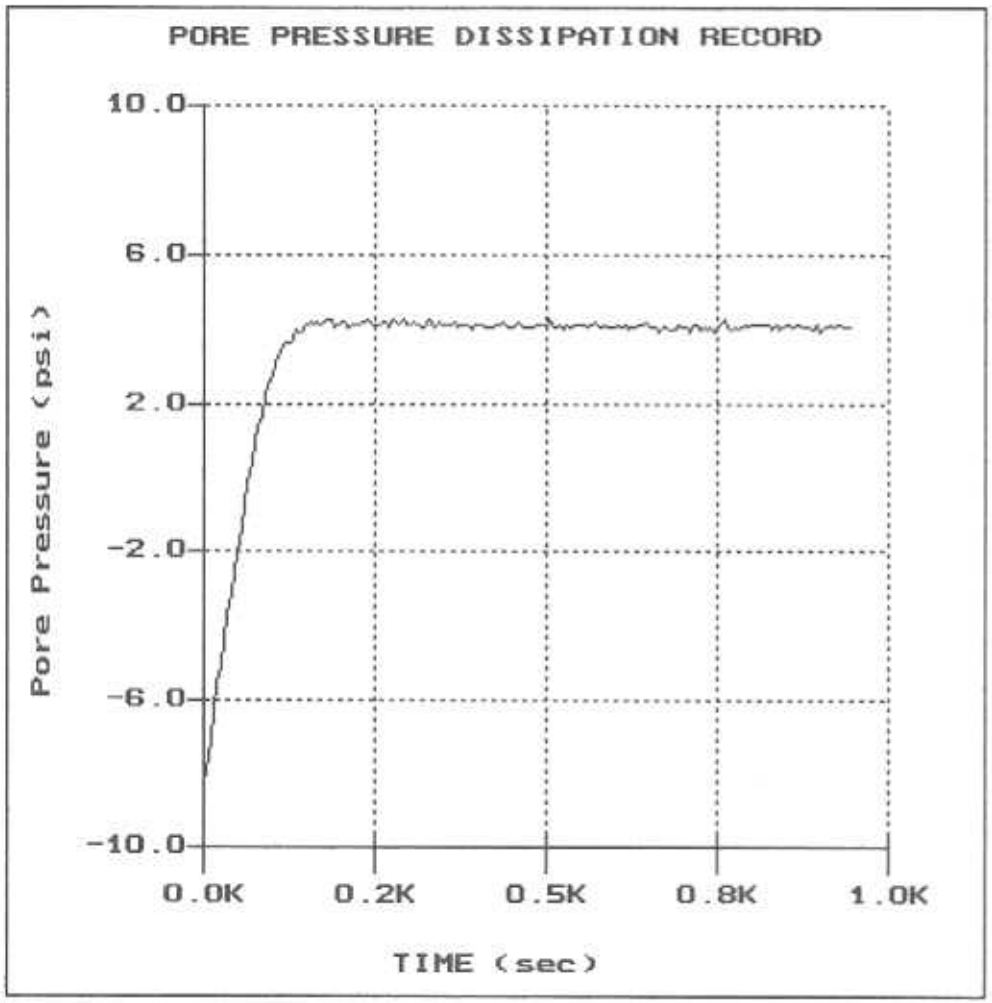


File: 356C04.PPC
Depth (m): 10.60
(ft): 34.78
Duration : 205.0s
U-min: -11.92 10.0s
U-max: 9.66 195.0s

CAMBRIA ENV.

Site:FORMER SHELL MLK WAY
Location:CPT-09

Engineer:A.FRIEL
Date:10:16:06 10:35



File: 356C09.PPC
Depth (m): 5.50
(ft): 18.04
Duration : 945.0s
U-min: -8.18 0.0s
U-max: 4.27 240.0s

APPENDIX CPT

Cone Penetration Test Data & Interpretation

Soil behavior type and stratigraphic interpretation is based on relationships between cone bearing (q_c), sleeve friction (f_s), and pore water pressure (u_2). The friction ratio (R_f) is a calculated parameter defined by $100f_s/q_c$ and is used to infer soil behavior type. Generally:

Cohesive soils (clays)

- High friction ratio (R_f) due to small cone bearing (q_c)
- Generate large excess pore water pressures (u_2)

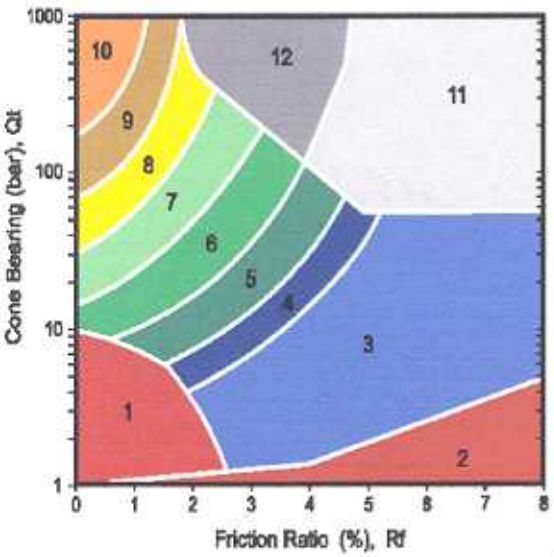
Cohesionless soils (sands)

- Low friction ratio (R_f) due to large cone bearing (q_c)
- Generate very little excess pore water pressures (u_2)

A complete set of baseline readings are taken prior to and at the completion of each sounding to determine temperature shifts and any zero load offsets. Corrections for temperature shifts and zero load offsets can be extremely important, especially when the recorded loads are relatively small. In sandy soils, however, these corrections are generally negligible.

The cone penetration test data collected from your site is presented in graphical form in Appendix CPT. The data includes CPT logs of measured soil parameters, computer calculations of interpreted soil behavior types (SBT), and additional geotechnical parameters. A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Soil interpretation for this project was conducted using recent correlations developed by Robertson, 1990, *Figure SBT*. Note that it is not always possible to clearly identify a soil type based solely on q_c, f_s, and u_2. In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type.



ZONE	Qt/N	SBT
1	2	Sensitive, fine grained
2	1	Organic materials
3	1	Clay
4	1.5	Silty clay to clay
5	2	Clayey silt to silty clay
6	2.5	Sandy silt to clayey silt
7	3	Silty sand to sandy silt
8	4	Sand to silty sand
9	5	Sand
10	6	Gravely sand to sand
11	1	Very stiff fine grained*
12	2	Sand to clayey sand*

*over consolidated or cemented

Figure SBT

Cone Penetration Testing Procedure (CPT)

Gregg In Situ, Inc. carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*. The soundings were conducted using a 20 ton capacity cone with a tip area of 15 cm^2 and a friction sleeve area of 225 cm^2. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cone takes measurements of cone bearing (q_c), sleeve friction (f_s) and penetration pore water pressure (u_2) at 5-cm intervals during penetration to provide a nearly continuous hydrogeologic log. CPT data reduction and interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored on disk for further analysis and reference. All CPT soundings are performed in accordance with revised (2002) ASTM standards (D 5778-95).

The cone also contains a porous filter element located directly behind the cone tip (u_2), *Figure CPT*. It consists of porous plastic and is 5.0mm thick. The filter element is used to obtain penetration pore pressure as the cone is advanced as well as Pore Pressure Dissipation Tests (PPDT's) during appropriate pauses in penetration. It should be noted that prior to penetration, the element is fully saturated with silicon oil under vacuum pressure to ensure accurate and fast dissipation.

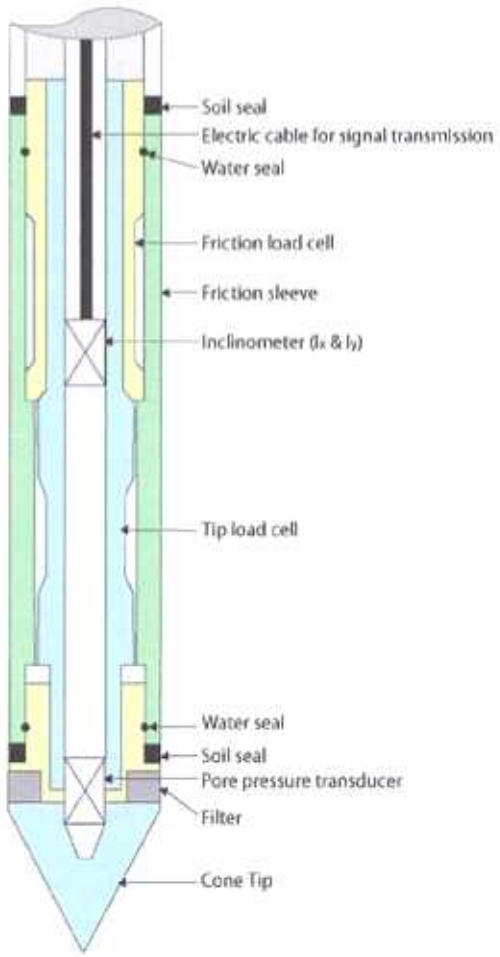


Figure CPT

When the soundings are complete, the test holes are grouted using a Gregg In Situ support rig. The grouting procedures generally consist of pushing a hollow CPT rod with a "knock out" plug to the termination depth of the test hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.

APPENDIX PPD

Pore Pressure Dissipation Tests (PPDT)

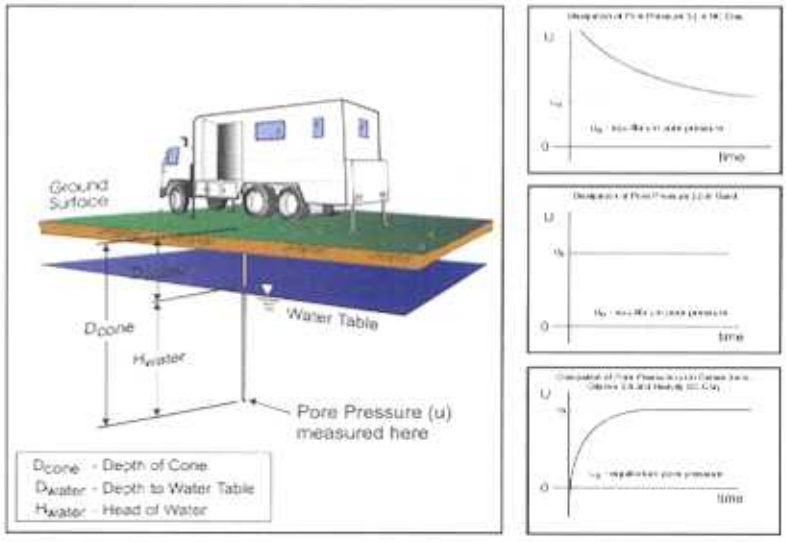
Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals measured hydrostatic water pressures and determined the approximate depth of the ground water table. A PPaT is conducted when the cone is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure (u) with time is measured behind the tip of the cone and recorded by a computer system.
Pore pressure dissipation data can be interpreted to provide estimates of:

- Equilibrium piezometric pressure
- Phreatic Purface
- In situ horizontal coefficient of consolidation (c_h)
- In situ horizontal coefficient of permeability (k_h)

In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until such time as there is no variation in pore pressure with time, *Figure PPDT*. This time is commonly referred to as t_{100}, the point at which 100% of the excess pore pressure has dissipated.

A complete reference on pore pressure dissipation tests is presented by obertson et al. 1992.

A summary of the pore pressure dissipation tests is summarized in Table 1. Pore pressure dissipation data is presented in graphical form in Appendix PPaT.



Water Table Calculation

$$D_{water} = D_{cone} - H_{water}$$

where $H_{water} = U_e$ (depth units)

Useful Conversion Factors: 1psi = 0.704m = 2.31 feet (water)
1tsf = 0.958 bar = 13.9 psi
1m = 3.28 feet

Figure PPDT

Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html, Section 5.3, pp. 107-112.

Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8, 1986 pp. 791-803.

Robertson, P.K., Sully, J., Woeller, D.J., Lunne, T., Powell, J.J.M., and Gillespie, D.J., "Guidelines for Estimating Consolidation Parameters in Soils from Piezocone Tests", Canadian Geotechnical Journal, Vol. 29, No. 4, August 1992, pp. 539-550.

Robertson, P.K., T. Lunne and J.J.M. Powell, "Geo-Environmental Application of Penetration Testing", Geotechnical Site Characterization, Robertson & Mayne (editors), 1998 Balkema, Rotterdam, ISBN 90 5410 939 4 pp 35-47.

Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53rd Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through www.astm.org

Attachment D

Disposal Documentation

MANLEY & SONS TRUCKING, INC.
SACRAMENTO, CA
DEMO
LOW BOY / LOADERS
HAZARDOUS WASTE HAULING
AGGREGATES
SAND / GRAVEL
FILL DIRT
CA 0009430
(916) 381-6864

Hazardous Waste Hauler (Registration # 2843)
P.O. Box 292547 * Sacramento, CA 95829 * FAX 916-381-1573

Disposal Confirmation

Request for Transportation Received: 11/29/2006

Consultant Information

Company:	Cambria
Contact:	Daviya Saleme
Phone:	510-420-3342
Fax:	510-420-9170

Site Information

PO #	
Street Address:	2703 Martin Luther King Jr.
City, State, ZIP:	Oakland, Ca
Customer:	Shell Oil Company RESA-0023-LDC
RIPR #:	57195
SAP # / Location:	NA
Incident #:	97093397
Location / WIC #:	NA
Environmental Engineer:	Denis Brown
Material Description:	Soil with gasoline
Estimated Quantity:	1 cy
Service Requested Date:	12/07/2006
Disposal Facility:	Forward Landfill
Contact:	Scott
Phone:	800 204-4242
Approval #:	6799
Date of Disposal:	12/05/2006
Actual Tonnage	0.15 tons
Transporter:	Manley & Sons Trucking, Inc.
Contact:	Jennifer Rogers
Phone:	916 381-6864
Fax:	916 381-1573
Invoice:	200612-4
Date of Invoice:	12/14/2006

INCOMPLETE RIPR CERTIFICATION FORM

RIPR # 57197 **DATE:** 01/15/07

CONSULTANT/CONTRACTOR INFORMATION

COMPANY NAME:	Cambria Environmental Technology Inc, Emeryville CA
CONTACT NAME:	Aubrey Cool
PHONE NUMBER:	(510) 420-3336

DESCRIPTION OF EFFORTS TO OBTAIN DOCUMENTATION

This section should include specific details of your efforts, such as whom you contacted, dates, by what means (telephone, e-mail, etc), and what the results were. Attach additional pages as necessary.

1. DID THE WORK TAKE PLACE? WAS THE RESIDUAL ACTUALLY GENERATED?
5 GL NON-HAZARDOUS DECONWATER BUCKET GENERATED, BUT PSC/BURLINGTON DID NOT FIND IT UPON SITE VISIT (DRY RUN MANIFEST INCLUDED). CAMBRIA VERIFIED WASTE CONTAINER NO LONGER ON SITE ON 1.12.07 FROM THIS GATED SITE (PROPERTY OWNER IS ASSUMED TO HAVE POURED OUT CONTENTS AND REUSED CONTAINER).

2. WHAT PAPERWORK EXISTS IN YOUR OFFICE FILES (PROJECT FILE, ACCOUNTING, OTHER)?
EMAIL REQUESTS TO PSC IN SEVERAL ATTEMPTS TO OBTAIN DATA. . JUNE AND AUGUST BILLS OF LADING.
DRY RUN BILL OF LADING COPY INCLUDED; EMAIL CORRESPONDENCE STATING DRY RUN FROM PSC.

3. WHAT TRANSPORTER DID YOU EMPLOY TO HAUL THE MATERIAL TO THE DESIGNATED TSDF? DESCRIBE YOUR EFFORTS TO CONTACT THEM.
PSC / BURLINGTON (CONTRACTS TO 21ST CENTURY)
SEVERAL EMAILS THROUGH OUT DECEMBER AND EARLY JANUARY REQUESTING STATUS ON 5 GL CONTAINER PICKUP. PSC REPORTED CONTAINER MISSING ON 1.08.07, 4 WEEKS AFTER SCHEDULED PICKUP.

4. WHAT TSDF DID YOU UTILIZE FOR DISPOSAL/RECYCLING OF THE MATERIAL? DESCRIBE YOUR EFFORTS TO CONTACT THEM.
PSC/Kent WA.

5. WHAT OTHER ADDITIONAL METHODS HAVE YOU EMPLOYED TO OBTAIN THE NECESSARY DOCUMENTATION?

SIGNATURES

PRINTED NAME: Daviya Saleme	SIGNATURE: Daviya Saleme DATE: 1/15/07

Shell Pipeline Company LP

Residual Information Pick-Up Request (RIPR)

RDC: DON WISDOM **RIPR Date** 11/21/2006 **RIPR #** 57197

Engineer: BROWN, DENIS **Phone / Fax:** /

Facility / SAP Cost Center: 129449 **Region/Dist/Area:** RETAIL - PACIFIC NORTH **Address:** 2703 MARTIN LUTHER KING OAKLAND, CA 94612
County: ALAMEDA

Remediation: YES **SAP Cost Element:** 276501 **Incident #:** 97093397 **Send Copies: Reimb. Invoice** NO **Direct Pay:**
Other Info:
Company:
Contact:

Consultant / Contractor Information
Company: CAMBRIA ENVIRONMENTAL TECH **Contact:** KENNERKNECHT, **Address:** 5900 HOLLIS STREET EMERYVILLE, CA 94608
Type of Facility: SHELL **Phone / Fax:** 510-420-3308 / 5104209170

Material Description **Free Liquids:** YES
DECONWATER FROM ROD CLEANING

Process Generating this Residual
CPT WORK, ROD CLEANING

Accumulation Date: 10/20/2006 **Sampling Date (if applicable):** 10/20/2006

Container Information:
Drums: Quantity / Type: 1 5 GL
Id #: D-1

Bins: Quantity / Size:
Supplied by:

Bulk Pile: Indicator / Size: NO

Other Container:
Volume: **Container Description:**
Contents/Prev. Contents:

Requirements or conditions associated with pick-up:

Comments or suggestions for local vendor:
PITBULLS ON SITE. PICKUP AFTER 9AM WHEN OWNER ON SITE. DRUM LOCATED IN BACK LEFT CORNER OF LOT.

Form Filled Out by:

From: Quartimon, Crystal [mailto:CQuartimon@pscnow.com]
Sent: Tuesday, January 09, 2007 2:05 PM
To: Saleme, Daviya
Subject: RE: Manifests/ Completion of Services

I will fax you the copy of the BOL. When we went out there, there was no drum on site.

From: Saleme, Daviya [mailto:dsaleme@cambria-env.com]
Sent: Tuesday, January 09, 2007 3:39 PM
To: Quartimon, Crystal
Subject: RE: Manifests/ Completion of Services

Crystal,

Can we also get a faxed copy of the manifests for 2703 Martin Luther, Oakland?

Thank you.

RIPRs:

56906, 56973	2301 San Pablo, Pinole	12.27.06 pu date	PSC Profile#s 355672-00 / 350039-00 Rcvd Faxed copy/Waiting on mailed originals
56087	3453 Cleveland, Santa Rosa	requested 11.01	complete
56615	400 Guerrero, San Francisco	requested 11.01	Waiting on disposal confirmation and original manifests
57197	2703 Martin Luther King JR, Oakland	requested 11.22	Need faxed manifests and mailed originals

Thank you.

Daviya Saleme
Project Administrative Assistant
Cambria Environmental Technology
(510) 420 -3342
fax (510)420-9170

PSC
ENVIRONMENTAL SERVICES GROUP
Western Region

535 Getty Court, Suite H
Benicia, CA 94510
(877) 748-3040

BILL OF LADING

Lading Manifest: 13578-06

DELIVERY DATE	JOB # 755151
SHIPPER / CUSTOMER: SHELL OIL PRODUCTS US 300-F07	POINT OF CONTACT: DON WISDOM
ADDRESS: 12700 NORTHBOROUGH DR	PHONE #: (281)874-2238
CITY, STATE, ZIP: HOUSTON TX 77067	
CARRIER / TRANSPORTER: 21st CENTURY EMI	PHONE #: (877)748-3040
CONSIGNEE / FACILITY: BURLINGTON ENVIRONMENTAL, INC.	POINT OF CONTACT
ADDRESS: 20245 77TH AVENUE SOUTH	PHONE #: (253)872-8030
CITY, STATE, ZIP: KENT , WA 98032	

HM	US DOT Hazardous Waste Only - Including Proper Shipping Name, Hazard Class, and ID Number	Containers No.	Containers Type	Total Quantity	UOM
A	NON-HAZARDOUS WASTE LIQUID (DECON WATER)		DM		P
B					
C					
D					

Special Handling Instruction and Additional Information:

a) 355672-00 - NON HAZ DECON WATER - WAT05 WATE05 STAB01 (5) SITE: 2703 MARTIN LUTHER KING JR WAY, OAKLNAD, CA. SAP 129449. SHELL PM: DENIS BROWN. RIPR 57197. ** KENT: PLEASE MAIL BOL TO CAMBRIA, DAVIYA SALEME, 5900 HOLLIS ST, STE A, EMERYVILLE, CA 94608.**

Placards Provided YES_____ NO_____

Emergency Phone #(877) 748-3040

SHIPPER'S CERTIFICATION: I hereby declared that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, vessel, and rail according to applicable international and national government regulations.

(SHIPPER) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
(	X			
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
(	X			
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
(	X			

Form # PSC-201 - RV 6/04

CONSIGNEE

Completion of Services – Transportation

RIPR #: 57197 **Request Date: 11/22/06**

Vendor: PHILIP SERVICES CORPORATION

Emailed 11.22

Contact: STACY TORISTOJA
Phone #: 360/835-8594
Address: 625 S 32ND STREET
WASHOUGAL , WA 98671

Contact: Daviya Saleme Phone #: 510/420-3342 Fax #: 510/420-9170
CAMBRIA Environmental Technology, Emeryville CA

Residual: **DECON Water Non-hazardous pH= 7**

Generated: From CPT / Rod cleaning
Facility Id (SAP #): 97093397
Facility Address: 2703 Martin Luther King Jr. Way, OAKLAND CA
Engineer: DENIS BROWN, HSEQ/Environmental Services - Western Region
Quantity: 1 drum (small)
Qty Description: (D-1) 5 GAL DECON WATER

Vendor: BURLINGTON ENVIRONMENTAL, INC.
Location: 20245 77TH AVENUE SOUTH KENT, WA 98032

Consultant Service Requested Date: pick up by 12/ 05/06

Additional Comments:
Transporter to load residual drums

Please use the following shipping labels:
NON-HAZARDOUS WASTE LIQUID (DECON WATER)

INVOICE PAYMENT:
Incident Number 97093397
SAP COST CENTER: 129449
COMPLIANCE COORDINATOR OR ENGINEER FOR THIS SITE PER RIPR:
Shell Oil Products US
Environmental Services Invoices
Attn: Accounts Payable OSP 2660A
Requester: Denis Brown -HSEQ/Environmental Services - Western Region
P.O. Box 4912
Houston, Texas 77210-4702

Fax Don Wisdom at Shell Oil Products US A COPY OF THE BILL OF LADING : FAX 281-874-2269

Attachment E

Certified Analytical Reports

TestAmerica
ANALYTICAL TESTING CORPORATION

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

13 November, 2006

Ana Friel
Cambria Env - 5900 Hollis, Emeryville (Shell)
5900 Hollis St., Ste. A
Emeryville, CA 94608

RE: 2703 Martain Luther King Jr. Way
Work Order: S610458

Enclosed are the results of analyses for samples received by the laboratory on 10/25/06 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Krenn
Project Manager

CA ELAP Certificate # 2630

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project:	2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number:	SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager:	Ana Friel	11/13/06 22:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CPT-4-37-W	S610458-01	Water	10/18/06 11:50	10/25/06 10:15
CPT-5-20-W	S610458-02	Water	10/18/06 13:45	10/25/06 10:15
CPT-5-35-W	S610458-03	Water	10/18/06 16:45	10/25/06 10:15
CPT-1-35-W	S610458-04	Water	10/18/06 16:15	10/25/06 10:15
CPT-3-35-W	S610458-05	Water	10/20/06 12:00	10/25/06 10:15
CPT-2-35-W	S610458-06	Water	10/20/06 15:45	10/25/06 10:15
SP-1	S610458-07	Soil	10/20/06 00:00	10/25/06 10:15

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Gasoline\BTEX\Oxygenates by GCMS\8260B

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CPT-4-37-W (S610458-01) Water Sampled: 10/18/06 11:50 Received: 10/25/06 10:15									
Benzene	**33**	0.50	ug/l	1	6100401	10/31/06	10/31/06	GCMS \ 8260B	
Ethylbenzene	**140**	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**3200**	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*95 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*98 %*	*60-140*		"	"	"	"	
CPT-4-37-W (S610458-01RE1) Water Sampled: 10/18/06 11:50 Received: 10/25/06 10:15									
Toluene	**150**	2.5	ug/l	5	6100401	10/30/06	10/31/06	GCMS \ 8260B	
Xylenes (total)	**570**	5.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*96 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*102 %*	*60-140*		"	"	"	"	
CPT-5-20-W (S610458-02) Water Sampled: 10/18/06 13:45 Received: 10/25/06 10:15									
Benzene	**1100**	5.0	ug/l	10	6100401	10/31/06	10/31/06	GCMS \ 8260B	
Toluene	**200**	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**25000**	500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*95 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*100 %*	*60-140*		"	"	"	"	
CPT-5-20-W (S610458-02RE1) Water Sampled: 10/18/06 13:45 Received: 10/25/06 10:15									
Ethylbenzene	**5300**	12	ug/l	25	6100401	11/01/06	11/01/06	GCMS \ 8260B	E
Xylenes (total)	**4100**	25	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*96 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*100 %*	*60-140*		"	"	"	"	

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Gasoline\BTEX\Oxygenates by GCMS\8260B

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CPT-5-35-W (S610458-03) Water Sampled: 10/18/06 16:45 Received: 10/25/06 10:15									
Benzene	**4.0**	0.50	ug/l	1	6100401	10/31/06	10/31/06	GCMS \ 8260B	
Ethylbenzene	**11**	0.50	"	"	"	"	"	"	
Toluene	**2.6**	0.50	"	"	"	"	"	"	
Xylenes (total)	**44**	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**220**	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*94 %*		*60-140*		"	"	"	
Surrogate: Toluene-d8		*100 %*		*60-140*		"	"	"	
Surrogate: 4-BFB		*101 %*		*60-140*		"	"	"	
CPT-1-35-W (S610458-04) Water Sampled: 10/18/06 16:15 Received: 10/25/06 10:15									
Benzene	**4.3**	0.50	ug/l	1	6100401	10/31/06	10/31/06	GCMS \ 8260B	
Ethylbenzene	**6.1**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**3.0**	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*100 %*		*60-140*		"	"	"	
Surrogate: Toluene-d8		*103 %*		*60-140*		"	"	"	
Surrogate: 4-BFB		*100 %*		*60-140*		"	"	"	
CPT-3-35-W (S610458-05) Water Sampled: 10/20/06 12:00 Received: 10/25/06 10:15									
Benzene	**45**	0.50	ug/l	1	6100401	10/31/06	10/31/06	GCMS \ 8260B	
Ethylbenzene	**45**	0.50	"	"	"	"	"	"	
Toluene	**15**	0.50	"	"	"	"	"	"	
Xylenes (total)	**310**	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**880**	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*98 %*		*60-140*		"	"	"	
Surrogate: Toluene-d8		*101 %*		*60-140*		"	"	"	
Surrogate: 4-BFB		*98 %*		*60-140*		"	"	"	

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Gasoline\BTEX\Oxygenates by GCMS\8260B

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CPT-2-35-W (S610458-06) Water Sampled: 10/20/06 15:45 Received: 10/25/06 10:15									
Benzene	**180**	0.50	ug/l	1	6100401	10/31/06	10/31/06	GCMS \ 8260B	
Gasoline Range Organics (C4-C12)	**2600**	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*101 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*98 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*98 %*	*60-140*		"	"	"	"	
CPT-2-35-W (S610458-06RE1) Water Sampled: 10/20/06 15:45 Received: 10/25/06 10:15									
Ethylbenzene	**55**	5.0	ug/l	10	6110094	11/01/06	11/01/06	GCMS \ 8260B	
Toluene	**69**	5.0	"	"	"	"	"	"	
Xylenes (total)	**290**	10	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*96 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*101 %*	*60-140*		"	"	"	"	
SP-1 (S610458-07) Soil Sampled: 10/20/06 00:00 Received: 10/25/06 10:15									
Benzene	ND	0.010	mg/kg	1	6100403	10/30/06	10/30/06	GCMS \ 8260B	
Ethylbenzene	ND	0.010	"	"	"	"	"	"	
Toluene	ND	0.010	"	"	"	"	"	"	
Xylenes (total)	ND	0.020	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**3.3**	2.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*105 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*139 %*	*60-140*		"	"	"	"	

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (S610458-07) Soil Sampled: 10/20/06 00:00 Received: 10/25/06 10:15									
Lead	ND	10	mg/kg	4	6100395	10/30/06	11/04/06	EPA 6010B	

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control
TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100401 - EPA 5030B [P/T] / GCMS \ 8260B										
Blank (6100401-BLK1)				Prepared: 10/30/06 Analyzed: 10/31/06						
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	*24.8*		*"*	*25.0*		*99*	*60-140*			
Surrogate: Toluene-d8	*25.6*		*"*	*25.0*		*102*	*60-140*			
Surrogate: 4-BFB	*25.6*		*"*	*25.0*		*102*	*60-140*			
Blank (6100401-BLK2)				Prepared & Analyzed: 10/31/06						
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	*23.4*		*"*	*25.0*		*94*	*60-140*			
Surrogate: Toluene-d8	*25.0*		*"*	*25.0*		*100*	*60-140*			
Surrogate: 4-BFB	*25.4*		*"*	*25.0*		*102*	*60-140*			
Blank (6100401-BLK3)				Prepared & Analyzed: 11/01/06						
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	*25.7*		*"*	*25.0*		*103*	*60-140*			
Surrogate: Toluene-d8	*26.0*		*"*	*25.0*		*104*	*60-140*			
Surrogate: 4-BFB	*25.4*		*"*	*25.0*		*102*	*60-140*			

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100401 - EPA 5030B [P/T] / GCMS \ 8260B										
Laboratory Control Sample (6100401-BS1)				Prepared: 10/30/06 Analyzed: 10/31/06						
Gasoline Range Organics (C4-C12)	2230	50	ug/l	2200		101	70-130			
Surrogate: 1,2-DCA-d4	*26.6*		*"*	*25.0*		*106*	*60-140*			
Surrogate: Toluene-d8	*25.0*		*"*	*25.0*		*100*	*60-140*			
Surrogate: 4-BFB	*25.1*		*"*	*25.0*		*100*	*60-140*			
Laboratory Control Sample (6100401-BS2)				Prepared & Analyzed: 10/30/06						
Benzene	21.2	0.50	ug/l	20.0		106	70-130			
Toluene	17.5	0.50	"	20.0		88	70-130			
Surrogate: 1,2-DCA-d4	*26.3*		*"*	*25.0*		*105*	*60-140*			
Surrogate: Toluene-d8	*24.7*		*"*	*25.0*		*99*	*60-140*			
Surrogate: 4-BFB	*24.3*		*"*	*25.0*		*97*	*60-140*			
Laboratory Control Sample (6100401-BS3)				Prepared & Analyzed: 10/31/06						
Gasoline Range Organics (C4-C12)	2290	50	ug/l	2200		104	70-130			
Surrogate: 1,2-DCA-d4	*25.7*		*"*	*25.0*		*103*	*60-140*			
Surrogate: Toluene-d8	*25.0*		*"*	*25.0*		*100*	*60-140*			
Surrogate: 4-BFB	*25.4*		*"*	*25.0*		*102*	*60-140*			
Laboratory Control Sample (6100401-BS4)				Prepared & Analyzed: 10/31/06						
Benzene	20.9	0.50	ug/l	20.0		104	70-130			
Toluene	17.7	0.50	"	20.0		88	70-130			
Surrogate: 1,2-DCA-d4	*24.7*		*"*	*25.0*		*99*	*60-140*			
Surrogate: Toluene-d8	*24.8*		*"*	*25.0*		*99*	*60-140*			
Surrogate: 4-BFB	*24.7*		*"*	*25.0*		*99*	*60-140*			
Laboratory Control Sample (6100401-BS5)				Prepared & Analyzed: 11/01/06						
Gasoline Range Organics (C4-C12)	2210	50	ug/l	2200		100	70-130			
Surrogate: 1,2-DCA-d4	*26.2*		*"*	*25.0*		*105*	*60-140*			
Surrogate: Toluene-d8	*25.6*		*"*	*25.0*		*102*	*60-140*			
Surrogate: 4-BFB	*26.0*		*"*	*25.0*		*104*	*60-140*			

TestAmerica
ANALYTICAL TESTING CORPORATION

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

Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100401 - EPA 5030B [P/T] / GCMS \ 8260B										
Laboratory Control Sample (6100401-BS6)				Prepared & Analyzed: 11/01/06						
Benzene	20.6	0.50	ug/l	20.0		103	70-130			
Toluene	18.1	0.50	"	20.0		90	70-130			
Surrogate: 1,2-DCA-d4	*24.6*		*"*	*25.0*		*98*	*60-140*			
Surrogate: Toluene-d8	*24.6*		*"*	*25.0*		*98*	*60-140*			
Surrogate: 4-BFB	*25.2*		*"*	*25.0*		*101*	*60-140*			
Matrix Spike (6100401-MS1)	**Source: S610458-03**			Prepared & Analyzed: 11/01/06						
Gasoline Range Organics (C4-C12)	2320	50	ug/l	2200	221	95	60-140			
Surrogate: 1,2-DCA-d4	*26.8*		*"*	*25.0*		*107*	*60-140*			
Surrogate: Toluene-d8	*25.9*		*"*	*25.0*		*104*	*60-140*			
Surrogate: 4-BFB	*25.2*		*"*	*25.0*		*101*	*60-140*			
Matrix Spike Dup (6100401-MSD1)	**Source: S610458-03**			Prepared: 11/01/06 Analyzed: 11/02/06						
Gasoline Range Organics (C4-C12)	2340	50	ug/l	2200	221	96	60-140	0.9	25	
Surrogate: 1,2-DCA-d4	*26.3*		*"*	*25.0*		*105*	*60-140*			
Surrogate: Toluene-d8	*26.0*		*"*	*25.0*		*104*	*60-140*			
Surrogate: 4-BFB	*25.0*		*"*	*25.0*		*100*	*60-140*			
Batch 6100403 - EPA 5030B [P/T] / GCMS \ 8260B										
Blank (6100403-BLK1)				Prepared & Analyzed: 10/30/06						
Benzene	ND	0.010	mg/kg							
Ethylbenzene	ND	0.010	"							
Toluene	ND	0.010	"							
Xylenes (total)	ND	0.020	"							
Gasoline Range Organics (C4-C12)	ND	2.0	"							
Surrogate: 1,2-DCA-d4	*0.0502*		*"*	*0.0500*		*100*	*60-140*			
Surrogate: Toluene-d8	*0.0501*		*"*	*0.0500*		*100*	*60-140*			
Surrogate: 4-BFB	*0.0493*		*"*	*0.0500*		*99*	*60-140*			

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100403 - EPA 5030B [P/T] / GCMS \ 8260B										
Laboratory Control Sample (6100403-BS1)				Prepared & Analyzed: 10/30/06						
Gasoline Range Organics (C4-C12)	4.43	2.0	mg/kg	4.40		101	70-130			
Surrogate: 1,2-DCA-d4	*0.0517*		"	*0.0500*		*103*	*60-140*			
Surrogate: Toluene-d8	*0.0499*		"	*0.0500*		*100*	*60-140*			
Surrogate: 4-BFB	*0.0500*		"	*0.0500*		*100*	*60-140*			
Laboratory Control Sample (6100403-BS2)				Prepared & Analyzed: 10/30/06						
Benzene	0.0418	0.010	mg/kg	0.0400		104	70-130			
Toluene	0.0360	0.010	"	0.0400		90	70-130			
Surrogate: 1,2-DCA-d4	*0.0519*		"	*0.0500*		*104*	*60-140*			
Surrogate: Toluene-d8	*0.0491*		"	*0.0500*		*98*	*60-140*			
Surrogate: 4-BFB	*0.0490*		"	*0.0500*		*98*	*60-140*			
Laboratory Control Sample Dup (6100403-BSD1)				Prepared: 10/30/06 Analyzed: 10/31/06						
Benzene	0.0475	0.010	mg/kg	0.0776		61	70-130		25	S02
Toluene	0.293	0.010	"	0.376		78	70-130		25	S02
Gasoline Range Organics (C4-C12)	4.46	2.0	"	4.40		101	70-130	0.7	25	
Surrogate: 1,2-DCA-d4	*0.0531*		"	*0.0500*		*106*	*60-140*			
Surrogate: Toluene-d8	*0.0500*		"	*0.0500*		*100*	*60-140*			
Surrogate: 4-BFB	*0.0502*		"	*0.0500*		*100*	*60-140*			
Batch 6110094 - EPA 5030B [P/T] / GCMS \ 8260B										
Blank (6110094-BLK1)				Prepared & Analyzed: 11/01/06						
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	*25.7*		"	*25.0*		*103*	*60-140*			
Surrogate: Toluene-d8	*26.0*		"	*25.0*		*104*	*60-140*			
Surrogate: 4-BFB	*25.4*		"	*25.0*		*102*	*60-140*			

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6110094 - EPA 5030B [P/T] / GCMS \ 8260B										
Laboratory Control Sample (6110094-BS1)				Prepared & Analyzed: 11/01/06						
Benzene	23.1	0.50	ug/l	38.8		60	70-130			QC02
Toluene	141	0.50	"	188		75	70-130			
Gasoline Range Organics (C4-C12)	2210	50	"	2200		100	70-130			
Surrogate: 1,2-DCA-d4	*26.2*		*"*	*25.0*		*105*	*60-140*			
Surrogate: Toluene-d8	*25.6*		*"*	*25.0*		*102*	*60-140*			
Surrogate: 4-BFB	*26.0*		*"*	*25.0*		*104*	*60-140*			
Laboratory Control Sample Dup (6110094-BSD1)				Prepared: 11/01/06 Analyzed: 11/02/06						
Benzene	23.9	0.50	ug/l	38.8		62	70-130	3	25	QC02
Toluene	124	0.50	"	188		66	70-130	13	25	QC02
Gasoline Range Organics (C4-C12)	2150	50	"	2200		98	70-130	3	25	
Surrogate: 1,2-DCA-d4	*27.1*		*"*	*25.0*		*108*	*60-140*			
Surrogate: Toluene-d8	*25.8*		*"*	*25.0*		*103*	*60-140*			
Surrogate: 4-BFB	*26.2*		*"*	*25.0*		*105*	*60-140*			

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

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

TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6100395 - EPA 3050B / EPA 6010B										
Blank (6100395-BLK1)				Prepared: 10/30/06		Analyzed: 11/04/06				
Lead	ND	2.5	mg/kg							
Laboratory Control Sample (6100395-BS1)				Prepared: 10/30/06		Analyzed: 11/04/06				
Lead	102	2.5	mg/kg	100		102	80-120			
Matrix Spike (6100395-MS1)	**Source: S610525-01**			Prepared: 10/30/06		Analyzed: 11/04/06				
Lead	76.7	10	mg/kg	100	ND	77	75-125			
Matrix Spike Dup (6100395-MSD1)	**Source: S610525-01**			Prepared: 10/30/06		Analyzed: 11/04/06				
Lead	77.4	10	mg/kg	100	ND	77	75-125	0.9	20	

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Cambria Env - 5900 Hollis, Emeryville (Shell)	Project: 2703 Martain Luther King Jr. Way	S610458
5900 Hollis St., Ste. A	Project Number: SAP # 129449	**Reported:**
Emeryville CA, 94608	Project Manager: Ana Friel	11/13/06 22:41

Notes and Definitions

S02	The surrogate recovery was below control limits.
QC02	The percent recovery was below the control limits.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

LAB: TA

- ☐ TA - Irvine, California
- ☐ TA - Morgan Hill, California
- ☑ TA - Sacramento, California
- ☐ TA - Nashville, Tennesee
- ☐ Calscience
- ☐ Other_____

SHELL Chain Of Custody Record

NAME OF PERSON TO BILL: Carol Campagna

☑ ENVIRONMENTAL SERVICES ☐ NETWORK DEV / FE ☐ BILL CONSULTANT ☐ COMPLIANCE ☐ RMT/CRMT

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY):

PO #: 9 7 0 9 3 3 9 7

SAP or CRMT #: 1 2 9 4 4 9

DATE: 10/18/06

PAGE: 1 of 2

SAMPLING COMPANY:	LOG CODE:
Cambria Environmental Technology, Inc.	CETO

SITE ADDRESS: Street and City	State	GLOBAL ID NO.:
2703 Martin Luther King Jr Way	CA	T0600101876

ADDRESS:	
5900 Hollis Street, Suite A, Emeryville, CA 94608	

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
Brenda Carter, Cambria, Emeryville	510-420-3343	shell.em.edf@cambria-env.com	248-0781-011

PROJECT CONTACT (Hardcopy or PDF Report to):		
Ana Friel		
TELEPHONE:	FAX:	E-MAIL:
707 268 3812	707 268 8180	afriel@cambria-env.com

SAMPLER NAME(S) (Print): Mathias

LAB USE ONLY: 10458

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS): ☑ STD ☐ 5 DAY ☐ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☑ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

SPECIAL INSTRUCTIONS OR NOTES:

☐ EDD NOT NEEDED
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMB RATE APPLIES
☑ RECEIPT VERIFICATION REQUESTED

CC lab reports to acool@cambria-env,.com; and dsaleme@cambria-env.com

No partial lab reports, send final PDF report only.

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH g- Purgeable (8260B)	TPHd - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	Oil & Greese EPA 9070	Chlorinated hydorcarbons 8260	EDB & EDC 8260	Cam 5 Metals Cr, Cd, Pb, Ni, Zn	PCB, PCP, PNAs Creosote 8270	Test for Disposal (see attached)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	CPT-4-37-W	10/18/06	11:50	GW	5	X		X			01					TEMPERATURE ON RECEIPT C° 5.6°C
		10/ /06									0					
	CPT-5-20-W	10/18/06	1:45	GW	5	X		X			02					} CPT-5
	CPT-5-35-W	10/18/06	4:45	GW	5	X		X			03					
		10/ /06														
	CPT-1-35-W	10/18/06	4:15	GW	5	X		X			04					
		10/ /06														
	CPT-3-35 W	10/20/06	12:00	GW	5	X		X			05					
		10/ /06														
	CPT-2-35-W	10/20/06	3:45	GW	5	X		X			06					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
C. Mathias		10/20/06	4:30 PM
Relinquished by: (Signature)	Received by: (Signature) Savio Motha. (TA-MH)	Date: 10/23/06	Time: 12:30.
Relinquished by: (Signature) Savio Motha	Received by: (Signature) JULIENG (MH)	Date: 10/23/06	Time: 18:38
JULIENG (MH) 10/24/06 1900		10/25/06	1015

05/02/06 Revision

Q&Q Graphic (714) 898-9292

LAB: TA

- ☐ TA - Irvine, California
- ☐ TA - Morgan Hill, California
- ☑ TA - Sacramento, California
- ☐ TA - Nashville, Tennesee
- ☐ Calscience
- ☐ Other_____

SHELL Chain Of Custody Record

NAME OF PERSON TO BILL: Carol Campagna

☑ ENVIRONMENTAL SERVICES ☐ NETWORK DEV./FE ☐ BILL CONSULTANT ☐ COMPLIANCE ☐ RMT/CRMT

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY):

PO #: 9 7 0 9 3 3 9 7

SAP or CRMT #: 1 2 9 4 4 9

DATE: 10/20/6

PAGE: 2 of 2

SAMPLING COMPANY:	LOG CODE:
Cambria Environmental Technology, Inc.	CETO

SITE ADDRESS: Street and City	State	GLOBAL ID NO.:
2703 Martin Luther King Jr Way	CA	T0600101876

ADDRESS:	EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
5900 Hollis Street, Suite A, Emeryville, CA 94608	Brenda Carter, Cambria, Emeryville	510-420-3343	shell.em.edf@cambria-env.com	248-0781-011

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:
Ana Friel	707 268 3812	707 268 8180	afriel@cambria-env.com

SAMPLER NAME(S) (Print): Mathias

LAB USE ONLY: SCL0458

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS): ☑ STD ☐ 5 DAY ☐ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☑ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

SPECIAL INSTRUCTIONS OR NOTES:

☐ EDD NOT NEEDED
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMB RATE APPLIES
☑ RECEIPT VERIFICATION REQUESTED

CC lab reports to acool@cambria-env,.com; and dsaleme@cambria-env.com

No partial lab reports, send final PDF report only.

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH g- Purgeable (8260B)	TPHd - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	Oil & Greese EPA 9070	Chlorinated hydorcarbons 8260	EDB & EDC 8260	Cam 5 Metals Cr, Cd, Pb, Ni, Zn	PCB, PCP, PNAs Creosote 8270	LEAD	Test for Disposal (see attached)
	SP-1-A	10/20/06		SO	1	X		X							X	X
	SP-1-B	10/20/06		SO	1	X		X							X	X
	SP-1-C	10/20/06		SO	1	X		X							X	X
	SP-1-D	10/20/06		SO	1	X		X							X	X
		10/ /06														
		10/ /06														
		10/ /06														
		10/ /06														
		10/ /06														
		10/ /06														

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°: 5.6°C

STOCK PILE SAMPLES

Relinquished by: (Signature)	Received by: (Signature)	Date: 10/20/06	Time: 4:30 PM
Relinquished by: (Signature)	Received by: (Signature) SAVIO MOTHA (TA MH)	Date: 10/23/06	Time: 12:30
Relinquished by: (Signature) SAVIO MOTHA (TA MH)	Received by: (Signature)	Date: 10/23/06	Time: 18:36

JULIE NG (MH) 10/24/06 1700 — 10/25/06 1015

05/02/06 Revision

Q&Q Graphic (714) 895-9702

RESIDUAL MANAGEMENT PROCEDURE

ISSUED DATE: 08/01/01
CANCELS ISSUE:
ISSUED BY: LRR

RESIDUAL STREAM: SOIL WITH UNLEADED GASOLINE
VENDOR: ALLIED-BFI
LOCATION: ALLIED WASTE - MANTECA
9999 SOUTH AUSTIN ROAD
MANTECA, CA 95336

CALIFORNIA - TRANSPORTATION AND RETAIL

BTEX - EPA 8021B/8260B (IF BENZENE IS > OR = TO 10 MG/KG THEN TCLP BENZENE IS REQUIRED)

CAM METALS = TTLC METALS - LEAD ONLY
STLC ON ALL TTLC METALS 10 TIMES STLC MAXIMUM
TTLC LEAD=>13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS
IF ANY TTLC TOTAL METAL IS > OR = TO 20 TIMES TCLP REGULATORY LEVELS, TCLP IS REQUIRED

TOTAL PETROLEUM HYDROCARBONS, METHOD 418.1 OR 8015 — GASOLINE

~~MTBE METHOD 8260B (GC/MS)~~

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES > OR = TO 5000 PPM TPH. AQUATIC BIOASSAY (FISH TOX) = PART 800 OF STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)
-ALTERNATE APPROVED TEST METHODS PER SW846 ARE ALSO ACCEPTABLE
-ALL REQUIRED TESTS ON COMPOSITE (max 4:1)
-LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS
~~-MAIL OR FAX ALL ANALYSIS TO THE CENTRALIZED RESIDUAL MANAGEMENT TEAM~~

PROCEDURE ORIGINAL DATE: 08/01/01
PROCEDURE REVISED DATE: 08/01/01

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: SHELL
REC. BY (PRINT): JULIE NG.
WORKORDER:

DATE REC'D AT LAB: 10/23/06
TIME REC'D AT LAB: 1838
DATE LOGGED IN:

For Regulatory Purposes?
DRINKING WATER YES / NO
WASTE WATER YES / NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent) Intact / Broken*								
2. Chain-of-Custody	(Present) / Absent*								
3. Traffic Reports or Packing List:	Present / (Absent)								* MATRIX
4. Airbill:	Airbill / Sticker Present / (Absent)								SO : 1 metal core GW : 5 VOA (HCl)
5. Airbill #:	—								
6. Sample Labels:	(Present) / Absent								
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition:	(Intact) / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	(Yes) / No*								
10. Sample received within hold time?	(Yes) / No*								
11. Adequate sample volume received?	(Yes) / No*								
12. Proper preservatives used?	(Yes) / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / (No)*								
14. Read Temp: 5.6°C Corrected Temp: N Is corrected temp 4 +/-2°C?	(Yes) / No**								

(Acceptance range for samples requiring thermal pres.)
**Exception (if any): METALS / DFF ON ICE or Problem COC

10/24/06 JULIE NG. See COC

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.