CAMBRIA

June 22, 1999

STID 3962

City of Oakland Fire Department
505 14th Street
Oakland, California 94612
Attn: Mr. Hernan Gomez

RE: Tank Removal Soil Sampling Work Plan
Shell Service Station
8930 Bancroft Avenue
Oakland, California
WIC # 20455081305
Incident # 98995742
SAP # -135678

99 OCT -4 PM 4:3[illegible]
ENVIRONMENTAL PROTECTION

Dear Mr. Gomez:

Cambria Environmental Technology, Inc. (Cambria) has prepared this work plan describing activities to be performed during the removal and replacement of underground storage tanks (USTs) at the above referenced location. Environmental work will be performed to comply with appropriate Regional Water Quality Control Board and City of Oakland Fire Department guidelines.

EXECUTIVE SUMMARY

- The removal of gasoline USTs and associated piping is scheduled to begin on June 28, 1999.
- Soil samples from the UST excavation and trenches will be analyzed for TPPH, BTEX, total lead and MTBE.
- If groundwater is encountered in the tank pit during excavation activities, a groundwater sample will be collected and analyzed for TPPH, BTEX, total lead and MTBE.
- If over-excavation of soils is necessary, a Cambria staff member will direct the excavation contractor. Soils will be screened by visual observation and using an organic vapor meter.
- A Tank Removal Report will be prepared and submitted to the City of Oakland Fire Department and the Alameda County Health Care Services Agency.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria
Environmental
Technology, Inc.

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

SITE DESCRIPTION

The site is located at the southeast corner of the intersection of Bancroft Avenue and 90th Avenue in a mixed commercial and residential area of Oakland, California. The site is an active service station with a layout including a station building, two dispenser islands, and three underground storage tanks (Figure 1).

SCOPE OF WORK

The proposed scope of work is summarized in the following tasks.

Task 1 - Soil and Groundwater Sampling During Tank Removals

The UST removal project is scheduled to begin June 22, 1999. The contractor has submitted permits for the UST tank removal.

Soil samples will be collected from beneath the USTs per Tri-Regional Guidelines. If groundwater is encountered in the tank pit during UST removal activities, one water sample will be collected from the excavation pit for chemical analysis. Cambria's Standard Tank Removal Sampling procedures are presented as *Attachment A*.

Task 2 - Piping Trench Sampling

Piping associated with the existing USTs will be removed. One soil sample will be collected from piping trenches for every 20 lineal feet of piping. If the dispensers are removed samples will be collected from beneath the dispensers locations.

Task 3 - Chemical Analysis of Soil and Ground Water Samples

Soil and water samples collected from the tank and piping excavations will be sent Sequoia Analytical of Morgan Hill, California, for chemical analysis for Total Purgeable Petroleum Hydrocarbons (TPPH) according to EPA Method 8015 (Modified), BTEX compounds according to EPA Method 8020, total lead, and methyl-tertiary-butyl-ether (MTBE) according to EPA Method 8020. If detected, the highest MTBE concentration detected will be confirmed according to EPA method 8260.

Task 4 - Over-excavation

If over-excavation of soil is required, a Cambria staff member will be present onsite to observe field conditions and direct the excavation contractor in the removal of soils, and to document field observations. The staff member will screen excavated soils and stockpile soils appropriately based on field observations.

Task 5 - Report Preparation

Following the receipt of chemical analytical data, Cambria will prepare a Tank Removal Report documenting field activities and presenting chemical analytical results.

If you have any questions regarding the contents of this document, please call Troy Buggle at (510) 420-3333.

Sincerely,
Cambria Environmental Technology, Inc.

Troy A. Buggle
Senior Staff Scientist

Ailsa Le May, R.G.
Senior Geologist

REGISTERED GEOLOGIST
AILSA S. LE MAY
NO. 6717
STATE OF CALIFORNIA

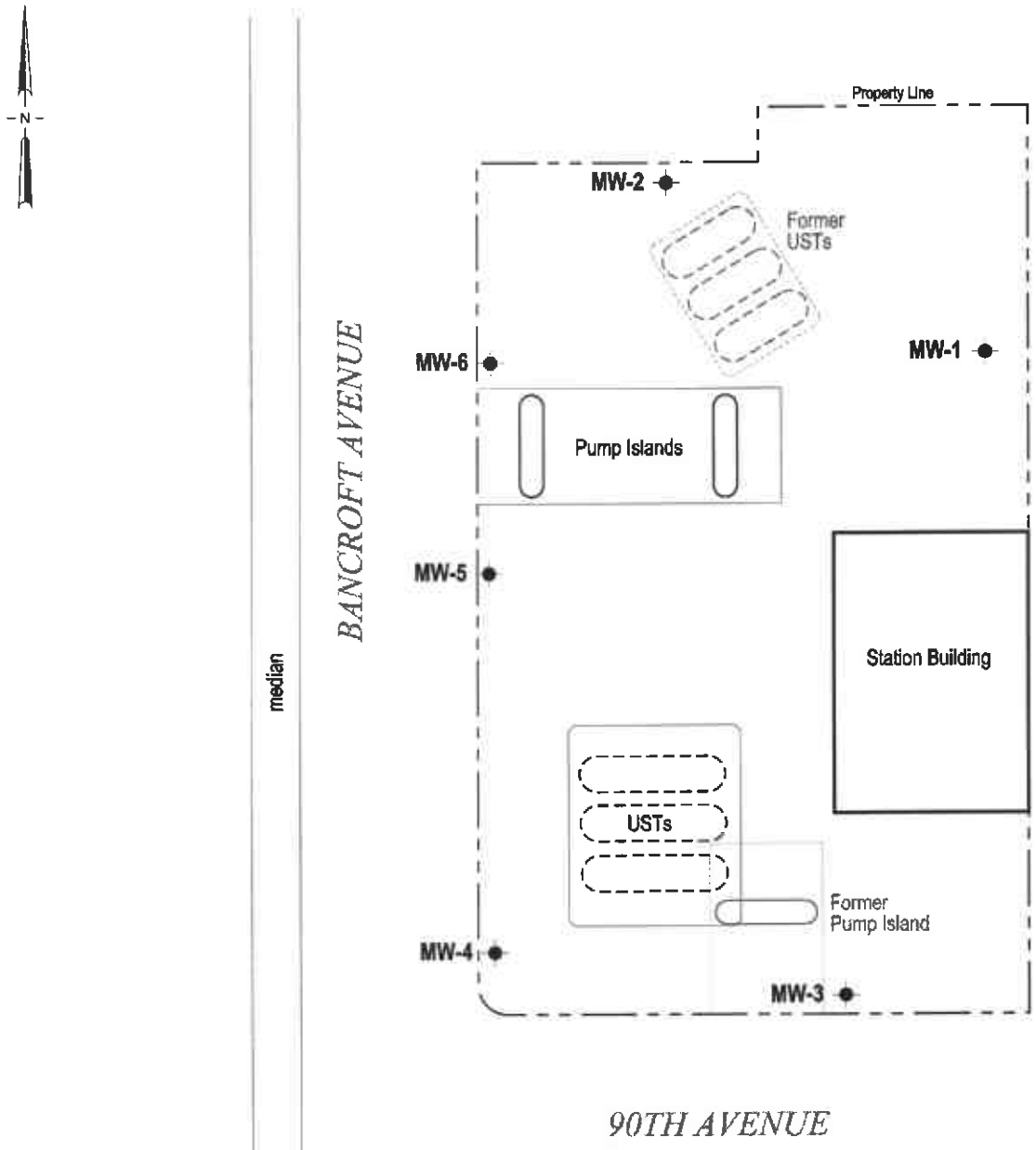
Figures

Figure 1 – Site Plan

Attachments

Attachment 1 – Standard Tank Removal Sampling Procedures

cc: Ms. Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, CA 90749-6249
Mr. Brett Hovland, Equiva Services LLC, 4464 Lone Tree Way, Antioch, CA 94509



EXPLANATION

MW-1 ◆ Ground Water Monitoring Well

0 15 30

Scale (ft)

FIGURE **1**

G:\OAK8930\FIGURES\SITE-PLAN.DWG

Shell-branded Service Station
8930 Bancroft Avenue
Oakland, California
WIC #204-5508-1305

CAMBRIA

Site Plan

ATTACHMENT A

Standard Tank Removal Sampling Procedures

CAMBRIA

STANDARD TANK REMOVAL SAMPLING PROCEDURES

This document describes Cambria Environmental Technology's standard operating procedures for collecting soil and ground water samples during underground storage tank removal. These procedures ensure that the samples are collected, handled, and documented in compliance with California Administration Code Title 23: Waters; Chapter 3: Water Resources Control Board; Subchapter 16: Underground Storage Tank Regulations (Title 23). Cambria's sampling procedures are based on guidelines contained in the California State Regional Water Quality Control Board Tri-Regional Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites dated August 10, 1990.

Tank Removal Sampling

The objective of sample collection during routine underground storage tank removals is to determine whether hydrocarbons or other stored chemicals have leaked to the subsurface. If no ground water is encountered within the tank excavation, Cambria will sample native soil 1 to 2 ft beneath the removed tank. Additional soil samples may also be collected at locations of obvious spillage to determine maximum concentrations in the surrounding soils. For underground storage tanks with a capacity of less than 1,000 gallons, one soil sample is collected beneath the fill end of the tank. For tanks with a capacity of between 1,000 and 10,000 gallons, one soil sample is collected beneath each end of the tank. For tanks larger than 10,000 gallons, 3 or more soil samples are collected beneath the removed tank. We also collect one soil sample for every 20 ft of product piping.

In cases where ground water is encountered within underground storage tank excavations, Cambria will collect confirmatory soil samples from the excavation sidewalls just above the soil/ground water interface and a representative ground water sample from the excavation. The excavation is typically purged and allowed to recover prior to collecting the water sample. For tanks with capacities of 10,000 gallons or less, one soil sample is collected from the wall at each end of the tank excavation. For tanks with capacities greater than 10,000 gallons, or tank clusters, at least four soil samples are collected from the excavation walls next to the tank ends. Piping samples are collected in native soil 1 to 2 ft beneath the removed piping. One sample is typically collected for every 20 linear ft of piping unless regulatory agencies approve of different sampling requirements.

The soil samples are collected in steam cleaned brass or steel tubes from either a driven split-spoon type sampler or the bucket of a backhoe. When a backhoe is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil.

Upon removal from the split-spoon sampler or the backhoe, the samples are trimmed flush, capped with Teflon sheets and plastic end caps, labeled, logged and refrigerated for delivery under chain of custody to a State certified analytic laboratory.

The ground water sample is collected using steam cleaned Teflon or PVC bailers, decanted into a volatile organic analysis (VOA) bottle or other appropriate clean sample container, refrigerated and transported under chain of custody to a State certified analytic laboratory.

City Of Oakland
FIRE PREVENTION BUREAU

250 Frank Ogawa Plaza, Ste. 3341
Oakland California 94612-2032
510-238-3851

Permit To Excavate And Install, Repair, Or Remove Inflammable Liquid Tanks

Oakland, California July 9, 1999

Tank Permit Number: 59-99

Permission Is Hereby Granted To:

Remove gas **Tank And Excavate Commencing:** **Feet Inside:** property **Line.**

On The: north side of 90th Ave.

Site Address: 8930 Bancroft **Present Storage:**

Owner: Sidhu Associates **Address:** 8930 Bancroft Ave., Oakland 94605 **Phone:** 568-7797

Applicant: Able Maintenance, Inc. **Address:** 51 Foley St., Santa Rosa, 95401 **Phone:** (707) 545-5522

Dimensions Of Street (sidewalk) Surface To Be Disturbed : **X** **No. Of Tanks** 3 **Capacity** 10,000 **Gallons, Each**

Remarks

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Type Of Inspection: UST Removal

Inspected And Passed On: 7/8/99

By: H. Gomez

Approved: JERRY E. BLUEFORD
Fire Marshal

UST/AST Installations/modifications:

Pressure Test: Inspected By: _____ **Date:** _____

Primary Piping Test: Inspected By: _____ **Date:** _____

Inspection Fee Paid: $ 740.00

Received By: S. Smith ck#32932 rec#785051

Secondary Containment & Sump Testing:

Inspected By: _____ **Date:** _____

Final: Inspected By: _____ **Date:** _____

Before Covering Tanks, Above Certification Must Be Signed When Ready For Inspection Notify Fire Prevention Bureau 238-3851

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE