CAMBRIA

January 14, 2000

Ms. Susan Hugo
Alameda County Health Care Service Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: **Monitoring Well Destruction Report**
Former Shell-branded Service Station
2800 Telegraph Avenue
Oakland, California
Cambria #241-1507
Incident # 97093398

Dear Ms. Hugo:

On behalf of Equiva Services LLC (Equiva), Cambria Environmental Technology, Inc. (Cambria) is submitting this well destruction report for the site referenced above. Three off-site monitoring wells were destroyed (S-7, S-9 and S-11) in order to facilate the construction of a new building on the property to the south of the subject facility(2710 Telegraph Avenue), across 28th Street in Oakland, California (Figure 1). Presented below is a summary of well destruction activities conducted at the site.

WELL DESTRUCTION PROCEDURES

Cambria obtained a drilling permit for well destructions from the Alameda County Public Works Agency (ACPWA) to destroy monitoring wells S-7, S-9, and S-11 (permit #99WR670). A copy of the drilling permit is included as Attachment A.

On November 19, 1999, Cambria Staff Geologist Matthew Gaffney supervised the well destructions. Gregg Drilling (C-57 License # 485165) of Martinez, California was on site to conduct well destruction drilling activities. Wells S-7, S-9, and S-11 were destroyed by removing the well vault box and drilling out the well casing to the total boring depth of 31, 30, and 19 ft below grade (fbg), respectfully. These 3-inch diameter wells were drilled out using 8-inch diameter hollow-stem augers, removing the monitoring well casings intact. The drill cuttings generated were stockpiled on site pending disposal arrangements. Each borehole was subsequently backfilled to grade with neat Portland type I/II cement. Cambria's *Standard Field Procedures for Abandoning Monitoring Wells* are included as Attachment B.

The stockpiled soil generated during well destruction activities was sampled by Cambria for waste characterization purposes prior to disposal. One four-point composite sample was collected from the stockpile and analyzed in accordance with Equiva's Waste Management Procedures. The stockpile was approved for disposal at Forward Landfill (Forward) in Manteca, California on January 13, 2000 and was transported to Forward by Manley and Sons Trucking of Sacramento, California on January 14, 2000. A copy of the laboratory analytical report, chain of custody, and Equiva's Waste Management Procedures are included as Attachment C. A copy of Forward's approval letter is included as Attachment D.

CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc

Troy A. Buggle
Project Scientist

Ailsa S. LeMay, R.G.
Senior Geologist

Figures: 1 - Site Plan

Attachments: A - Well Abandonment Permit
B - Cambria's Standard Field Procedures for Well Abandonment
C - Soil Stockpile Laboratory Analytical Report
D - Forward Landfill Approval Letter

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869

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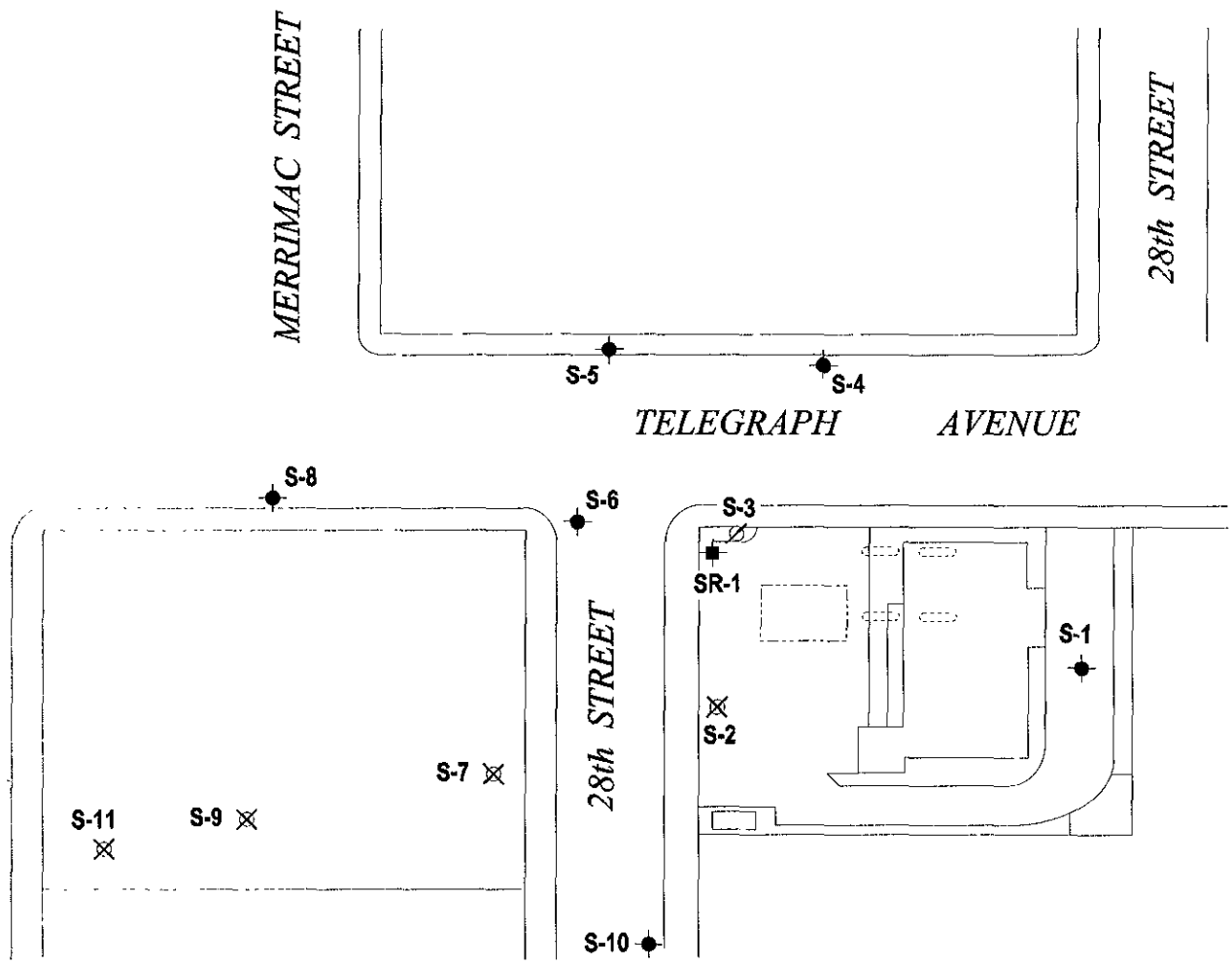

EXPLANATION

- MW-1 — Monitoring well location
- S-2 — Destroyed monitoring well location
- S-3 — Monitoring well paved over
- SR-1 — Recovery well location

0 30 60

Scale (ft)

FIGURE 1

Base map taken from Weiss Associates Site Map

G:\OAK\2800\FIGURES\AB-WELLS.DWG

Former Shell Service Station
2800 Telegraph Avenue
Oakland, California
Incident #97093398

CAMBRIA

Site Plan

ATTACHMENT A

Well Abandonment Permit

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5573 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2800 Telegraph Ave Oakland, CA
(Wells are in adjacent property - 2710 Telegraph Ave)

California Coordinates Source ____ ft Accuracy ± ____ ft.
CCN ____ ft. CCE ____ ft.
APN ____

CLIENT
Name Equiva Services LLC
Address P.O. Box 6249 Phone 559 645 9806
City Carson CA Zip 90749-6249

APPLICANT
Name TROY BUGGLE
Camboria Environmental Fax 510 420 9170
Address 1144 - 65th St, Suite B Phone 510 420 3333
City Oakland, CA Zip 94608

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☐	Well Destruction	☒ 3 wells 3" diam.

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other ____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. 485165 - GREGG Drilling

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 32 ft.
Casing Diameter 3 in. Number 3
Surface Seal Depth 12, 7, 12 ft.

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum
Hole Diameter ____ in. Depth ____ ft.

ESTIMATED STARTING DATE 11/19/99
ESTIMATED COMPLETION DATE 11/19/99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Troy A Bugl DATE 11/17/99

FOR OFFICE USE
PERMIT NUMBER 99WR670
WELL NUMBER ____
APN ____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) **GENERAL**
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. **WATER SUPPLY WELLS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. **GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. **GEOTECHNICAL**
Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. **CATHODIC**
Fill hole above anode zone with concrete placed by tremie.

(F.) **WELL DESTRUCTION**
See attached.

G. **SPECIAL CONDITIONS**

APPROVED Frank L Coll DATE 11-18-99

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE

Destruction Requirements:

1. Remove from the well any pump, appurtenances, debris, or other materials to a depth of 22 feet below the finished grade or original ground, whichever is the lower elevation.

2. Sound the well as deeply as practicable and record for your report.

3. Fill well below 22 feet with ~~pea gravel as necessary~~. Neat cement, cement grout or concrete ~~may be substituted for pea gravel, if desired~~.

4. Remove any casing(s) and annular seal to 2 feet below finished grade of original ground, whichever is the lower elevation.

5. Fill the remaining 20 foot length of casing with neat cement, cement grout or concrete. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

6. After the seal has set, backfill the remaining hole with compacted material.

ATTACHMENT B

Standard Field Procedures

STANDARD FIELD PROCEDURES FOR ABANDONING MONITORING WELLS

This document presents standard field methods for abandoning ground water monitoring wells. The objective of well abandonment is to destroy wells in a manner that is protective of potential water resources. The two procedures most commonly used are pressure grouting and drilling out the well. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Pressure Grouting

Pressure grouting consists of injecting neat Portland cement through a tremie pipe under pressure to the bottom of the well. The cement is composed of about five gallons of water to a 94 lb. sack of Portland I/II Cement. Once the well casing is full of grout, it remains pressurized by applying pressure with a grout pump. The well casing can also be pressurized by extending the well casing to the appropriate height and filling it with grout. In either case, the additional pressure allows the grout to be forced into the sand pack. After grouting the sand pack and casing, the well vault is removed and the area resurfaced or backfilled as required.

Well Drill Out

When well drill out is required, a hollow-stem auger drilling rig is used to drill out the well casing and pack materials. First, drill rods are dropped down the well and used to guide the augers as they drill out the well. Once the well is drilled out, the boring is filled with Portland cement injected through the augers or a tremie pipe under pressure to the bottom of the boring. The well vault is removed and the area resurfaced or backfilled as required.

ATTACHMENT C

Soil Stockpile Laboratory Analytical Report

Columbia Analytical Services INC.
An Employee-Owned Company

December 9, 1999 Service Request No.: S9903705

Mr. Troy Buggle
Cambria Environmental Technology, Inc.
1144 65th Street, Ste. C
Oakland, CA 94608

RE: 2800 Telegraph Ave, Oakland, CA

Dear Mr. Buggle:

Enclosed are the results of the sample(s) submitted to our laboratory on November 22, 1999. All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply to the sample(s) analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. *Signature of this CAS Analytical Report confirms that pages 2 through 14, following, have* been thoroughly reviewed and approved for release.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 2352, expiration: January 31, 2001).

If you have any questions, please call me at (408) 748-9700.

Respectfully submitted,

Columbia Analytical Services, Inc.

Lori Tyler
Project Chemist

COLUMBIA ANALYTICAL SERVICES, Inc.

Acronyms

A2LA	American Association for Laboratory Accreditation
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAM	California Assessment Metals
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
COD	Chemical Oxygen Demand
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
J	Estimated concentration. The value is less than the MRL, but greater than or equal to the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MCL	Maximum Contaminant Level. The highest permissible concentration of a substance allowed in drinking water as established by the U. S. EPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl tert-Butyl Ether
NA	Not Applicable
NAN	Not Analyzed
NC	Not Calculated
NCASI	National Council of the paper industry for Air and Stream Improvement
ND	Not Detected at or above the method reporting/detection limit (MRL/MDL)
NIOSH	National Institute for Occupational Safety and Health
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	*Quality Assurance/Quality Control*
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992
STLC	Solubility Threshold Limit Concentration
SW	Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
tr	Trace level. The concentration of an analyte that is less than the PQL but greater than or equal to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	11/19/99
Sample Matrix:	Soil	**Date Received:**	11/22/99

Lead
Total Metals

Prep Method:	EPA 3050BM	Units:	mg/Kg (ppm)
Analysis Method:	6010A	Basis:	Wet
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
SP-1234 Comp	S9903705-005	5	1	11/26/99	12/06/99	8	
Method Blank	S991226-MB	5	1	11/26/99	12/06/99	ND	

Approved By: Lori Zyl Date: 12-9-99

IA/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	11/26/99
		Date Analyzed:	12/06/99

Matrix Spike/Duplicate Matrix Spike Summary
Lead
Total Metals

Sample Name:	BATCH QC		Units:	mg/Kg (ppm)
Lab Code:	S9903729-002MS	S9903729-002DMS	Basis:	Wet
Test Notes:				

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Lead	EPA 3050BM	6010A	5	100	100	ND	89	91	89	91	75-125	2	

Approved By: _____ Date: 12-9-99

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	NA
LCS Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	11/26/99
		Date Analyzed:	12/06/99

Laboratory Control Sample Summary
Lead
Total Metals

Sample Name:	Lab Control Sample	Units:	mg/Kg (ppm)
Lab Code:	S991226-LCS	Basis:	Wet
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Lead	EPA 3050BM	6010A	100	89	89	75-125	

Approved By: Lei Zhu Date: 12-7-99

LCS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	11/19/99
Sample Matrix:	Soil	**Date Received:**	11/22/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	SP-1	Units:	mg/Kg (ppm)
Lab Code:	S9903705-001	Basis:	Wet
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	12/02/99	12/02/99	ND	
Benzene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Toluene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	0.006	
Ethylbenzene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	0.006	
Xylenes, Total	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Methyl tert-Butyl Ether	EPA 5030	8021B	0.05	1	12/02/99	12/02/99	ND	

Approved By: Lori Zf Date: 12-9-99

IS22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	11/19/99
Sample Matrix:	Soil	**Date Received:**	11/22/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	SP-2	Units:	mg/Kg (ppm)
Lab Code:	S9903705-002	Basis:	Wet
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	12/02/99	12/02/99	ND	
Benzene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Toluene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	0.007	
Ethylbenzene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Xylenes, Total	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Methyl tert-Butyl Ether	EPA 5030	8021B	0.05	1	12/02/99	12/02/99	ND	

Approved By: Lori Zf Date: 12-9-99

IS22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	11/19/99
Sample Matrix:	Soil	**Date Received:**	11/22/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	SP-3	Units:	mg/Kg (ppm)
Lab Code:	S9903705-003	Basis:	Wet
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	12/02/99	12/02/99	ND	
Benzene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Toluene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	0.007	
Ethylbenzene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Xylenes, Total	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Methyl tert-Butyl Ether	EPA 5030	8021B	0.05	1	12/02/99	12/02/99	ND	

Approved By: _____ Date: 12-9-99

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	11/19/99
Sample Matrix:	Soil	**Date Received:**	11/22/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	SP-4	Units:	mg/Kg (ppm)
Lab Code:	S9903705-004	Basis:	Wet
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	12/02/99	12/02/99	ND	
Benzene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	ND	
Toluene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	0.008	
Ethylbenzene	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	0.005	
Xylenes, Total	EPA 5030	8021B	0.005	1	12/02/99	12/02/99	0.02	
Methyl tert-Butyl Ether	EPA 5030	8021B	0.05	1	12/02/99	12/02/99	ND	

Approved By: _____ Date: 12-9-99

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

BTEX, MTBE and TPH as Gasoline

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	S991202-SB1	Basis:	Wet
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	12/02/99	12/03/99	ND	
Benzene	EPA 5030	8021B	0.005	1	12/02/99	12/03/99	ND	
Toluene	EPA 5030	8021B	0.005	1	12/02/99	12/03/99	ND	
Ethylbenzene	EPA 5030	8021B	0.005	1	12/02/99	12/03/99	ND	
Xylenes, Total	EPA 5030	8021B	0.005	1	12/02/99	12/03/99	ND	
Methyl tert-Butyl Ether	EPA 5030	8021B	0.05	1	12/02/99	12/03/99	ND	

Approved By: _____ Date: 12-9-99

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Equiva Services LLC
Project: 2800 Telegraph Ave, Oakland, CA
Sample Matrix: Soil

Service Request: S9903705
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
BTEX and TPH as Gasoline

Prep Method: EPA 5030
Analysis Method: 8021B CA/LUFT

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery a,a,a-Trifluorotoluene	Percent Recovery Fluorobenzene
SP-1	S9903705-001		120	86
SP-2	S9903705-002		117	82
SP-3	S9903705-003		127	84
SP-4	S9903705-004		127	83
BATCH QC	S9903805-001MS		108	91
BATCH QC	S9903805-001DMS		105	89
Method Blank	S991202-SB1		89 X	105 Y
CAS Acceptance Limits:			51-137	51-137

X 4-Bromofluorobenzene was used as surrogate spike.
Y a,a,a-Trifluorotoluene was used as surrogate spike.

Approved By: Lori Zf Date: 12-9-99

SUR2/020397p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	*2800 Telegraph Ave, Oakland, CA*	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	12/2/99
		Date Analyzed:	12/2/99

Matrix Spike/Duplicate Matrix Spike Summary
BTEX and TPH as Gasoline

Sample Name:	BATCH QC	Units:	mg/Kg (ppm)
Lab Code:	S9903805-001MS, S9903805-001DMS	Basis:	Wet
Test Notes:			

				Spike Level		Sample	Spike Result		Percent Recovery		CAS Acceptance	Relative Percent	Result
Analyte	**Prep Method**	**Analysis Method**	**MRL**	MS	DMS	**Result**	MS	DMS	MS	DMS	Limits	**Difference**	**Notes**
Benzene	EPA 5030	8021B	0.005	0.5	0.5	ND	0.42	0.42	84	84	57-154	<1	
Toluene	EPA 5030	8021B	0.005	0.5	0.5	0.006	0.43	0.43	85	85	60-142	<1	
Ethylbenzene	EPA 5030	8021B	0.005	0.5	0.5	ND	0.43	0.42	86	84	46-150	2	
Gasoline	EPA 5030	CA/LUFT	1	10	10	ND	8.3	8.0	83	80	67-121	4	

Approved By: _____ Date: 12-9-99

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Equiva Services LLC	**Service Request:**	S9903705
Project:	2800 Telegraph Ave, Oakland, CA	**Date Collected:**	NA
LCS Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	12/02/99
		Date Analyzed:	12/02/99

Laboratory Control Sample Summary
BTEX and TPH as Gasoline

Sample Name:	Lab Control Sample	Units:	mg/Kg (ppm)
Lab Code:	S991202-LCS	Basis:	Wet
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Benzene	EPA 5030	8021B	0.5	0.47	94	57-154	
Toluene	EPA 5030	8021B	0.5	0.49	98	60-142	
Ethylbenzene	EPA 5030	8021B	0.5	0.49	98	46-150	
Gasoline	EPA 5030	CA/LUFT	10	9.1	91	67-121	

Approved By: Lori Zf Date: 12-9-99

LCS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Equiva Services LLC
Project: 2800 Telegraph Ave, Oakland, CA

Service Request: S9903705
Date Analyzed: 12/02/99

Initial Calibration Verification (ICV) Summary
BTEX, MTBE and TPH as Gasoline

Sample Name: ICV
Lab Code: ICV1
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

ICV Source:

Analyte	Prep Method	Analysis Method	True Value	Result	CAS Percent Recovery Acceptance Limits	Percent Recovery	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	500	460	85-115	92	
Benzene	EPA 5030	8021B	50	52	85-115	104	
Toluene	EPA 5030	8021B	50	50	85-115	100	
Ethylbenzene	EPA 5030	8021B	50	50	85-115	100	
Xylenes, Total	EPA 5030	8021B	150	150	85-115	100	
Methyl *tert*-Butyl Ether	EPA 5030	8021B	50	49	85-115	98	

Approved By: _____ Date: 12-9-99

ICV/032196

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 59903705

Date:
Page 1 of 1

Site Address: 2800 Telegraph Ave. Oakland

INCIDENT #: 97093398

Shell Engineer: Karen Petryna
Phone No.:
Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Troy Bugyle
Phone No.: 510-420-0700
Fax #: 510-420-9170

Comments:

Sampled by: Matt J. Gaffney

Printed Name: Matt J. Gaffney

LAB: Columbia

CHECK ONE (1) BOX ONLY	C/UI	TURN AROUND TIME
G.W. Monitoring	4461	24 hours
Site Investigation	4441	48 hours
Soil Classify/Disposal	4442	15 days (Normal)
Water Classify/Disposal	4443	Other 10 day
Soil/Air Rem. or Sys. O & M	4452	NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.
Water Rem. or Sys. O & M	4453	
Other		

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) + MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SP-1	11/29/94	(1)	X			1	X		X			X TTLC Lead, if ≥10, Run STLC Lead; if ≥13 Run Organic Lead					TEST PER	ATTACHED
SP-2		(2)	X			1	X		X	4 pt.	(5)	X	4 pt.	(5)			SHEET	
SP-3		(3)	X			1	X		X			X						
SP-4	↓	(4)	X			1	X		X			X					TPH run individually	
																	Due: 12/8/94	R3

Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
Matt J. Gaffney	Matt J. Gaffney	11/30/94	11:54	Brian Fish	Brian Fish	11/21/94	4:54
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

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

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

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

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

MINIMUM REQUIRED TESTING

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

TPH = TOTAL PETROLEUM HYDROCARBONS, DHS GC-FID MOD 8015
GASOLINE OR DIESEL AS REQUIRED.
BTXE = EPA 8020 + MTBE
CAM METALS = TTLC LEAD, STLC LEAD IF TTLC => 50 MG/KG AND/OR
ORGANIC LEAD IF TTLC => 13 MG/KG

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

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

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

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

ATTACHMENT D

Forward Landfill Approval Letter

ALLIED WASTE
INDUSTRIES, INC.
NORTHERN CALIFORNIA SALES OFFICE • SPECIAL WASTE
Forward • Keller Canyon • Newby Island • Ox Mountain

January 13, 2000

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

Attn: Mr. Buggle

Re: Approval No. 912200
Contaminated Soil
2800 Telegraph Ave

Dear Mr. Buggle:

FORWARD INC. is pleased to inform you that the approximately 15 tons of Contaminated Soil from the referenced site has been approved for acceptance at our Manteca, California Landfill as a Class 2 waste. This approval has been based on the information provided in the waste profile and associated materials submitted on behalf of Equilon Enterprises LLC (Generator). Acceptance of the waste is subject to regulatory requirements, and is also subject to the "Terms and Conditions" agreed to and signed by Generator in the waste profile.

Your approval number for this project will be 912200. This number should be used in all scheduling and correspondence with ***FORWARD, INC.*** regarding this waste profile.

This profile shall remain in effect until January 12, 2001, or until any significant changes in the waste stream occur. At that time, ***FORWARD, INC.*** will re-evaluate the profile, and current analytical data and requirements will be reviewed.

Please schedule all waste shipments with the Landfill (209-982-4298) at least 24 hours in advance. The landfills hours of operation are Monday through Friday 6:00 am to 6:00 pm for soil, 6:00 am to 3:00 pm for asbestos, 6:00 am to 5:00 pm for all other waste types.

Thank you for the opportunity to be of service. Should you have any questions, please do not hesitate to contact me or our Customer Service at (800) 204-4242.

Sincerely,

FORWARD, INC.

Brad Bonner

Brad J. Bonner
Sales Manager

BJB/sr

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