January 17, 2000

Mr. Reid Riner
Remediation Manager
Amerco Real Estate Company/U-Haul Interna...
2721 North Central Avenue, Suite 700
Phoenix, Arizona 85012

Re: Results of Groundwater Sampling Event Conducted on October 21, 1999
AMERCO Real Estate Company Property
Alameda County Assessor Parcel Nos.
414-11-4-6 and 414-11-4-7
19100 - 19600 Mission Boulevard
Hayward, California

Dear Mr. Riner:

Pursuant to your request, Blaes Environmental Management, Inc. (Blaes Environmental) is pleased to provide this letter presenting the results of the groundwater sampling event conducted at the above-mentioned site on October 21, 1999. The purpose of the groundwater sampling program was to evaluate current groundwater quality beneath the site using two existing groundwater monitoring wells.

Site Background

The subject property consists of 2.73 acres (comprised of two adjacent properties) located immediately south of State Highway 238 and northeast of Mission Boulevard in Hayward, California (Figures 1 and 2; Attachment A). The site is currently abandoned and pending redevelopment. Several vacant structures occupy the site. These structures include two multi-story residential buildings, a water tower/pump house, and two single-story commercial buildings.

The commercial portion of the property previously operated two underground storage tanks: a 550-gallon gasoline tank and a 280-gallon waste-oil tank. These two tanks were removed from the site on June 5, 1990, according to a May 18, 1998 *Limited Environmental Site Assessment* (ESA) prepared by Pinnacle Environmental Technologies (Pinnacle).

Upon removal of the two tanks and discovery of petroleum hydrocarbons in the soil beneath the tanks, the Alameda County Health Care Agency requested the installation of groundwater monitoring well(s) (MW-1 and MW-2) near the former tank excavation area. Previous analyses of groundwater samples collected from these wells did not identify detectable concentrations of petroleum hydrocarbons. However, the screen interval of monitoring well MW-1 was below the groundwater table. (No well construction information was available for monitoring well MW-2). As a result, the previous groundwater sample results may not be representative of actual hydrocarbon concentrations (Pinnacle, 1998)

Groundwater Sampling Activities

On October 21, 1999, Blaes Environmental conducted groundwater sampling at the site. Groundwater monitoring and sampling activities began with measuring groundwater levels within the two existing groundwater monitoring wells, followed by purging and sampling of each well. Groundwater levels were measured from the top of the monitoring well casing to the groundwater surface, and were measured to the nearest 0.01 foot using a Heron Instruments® water level meter. The data is presented in Table 1 (Attachment B). Groundwater depth measurements were performed in accordance with Blaes Environmental's groundwater monitoring procedures summarized in Attachment C.

Following measurement of groundwater depth at the two monitoring wells, Blaes Environmental purged a minimum of three well-casing volumes of groundwater from each well. The calculated purge volumes are presented on Table 1. A description of the purging procedure is included in Attachment C. After the purging process was complete, the depth to groundwater was re-measured to ensure that the groundwater level had recovered to at least 80% of the original level. Purged groundwater was stored in three 55-gallon drums at the site pending laboratory analyses and/or waste profiling.

Following purging, groundwater samples were collected from each of the groundwater monitoring wells using a new polyethylene disposable bailer. Groundwater samples from each well were placed in four 40-milliliter VOA vials supplied by Columbia Analytical Services (CAS) of Santa Clara, California, a California State certified analytical laboratory. Following collection, the groundwater samples were placed in an iced cooler and transported to CAS, under chain-of-custody record, for laboratory analysis.

Laboratory Analyses of Groundwater Samples

Each groundwater sample collected on October 21, 1999 was analyzed for: Total Purgeable Petroleum Hydrocarbons as Gasoline (TPPH-G) according to EPA Method 8015 Modified, benzene, toluene, ethylbenzene, total xylenes (BTEX) with methyl tert-butyl ether (MTBE) using EPA Method 8020; and fuel oxygenates using EPA Method 8260. The laboratory analytical report with chain-of-custody is included as Attachment D and analytical results are summarized on Table 2 (Attachment B).

Groundwater Monitoring and Sampling Results

Observations and results of groundwater sampling activities are presented below.

- The depth to groundwater measured at monitoring wells MW-1 and MW-2 was 23.98 and 24.00 feet below top of casing, respectively. This is approximately eight feet lower than measurements presented in the previous Pinnacle report (1998).

- Monitoring well MW-2 was capped with duct-tape and contained debris such as a Styrofoam cup

- Groundwater from monitoring well MW-1 was clear and did not exhibit a hydrocarbon-like odor.

- Groundwater from monitoring well MW-2 exhibited a hydrogen-sulfide-like odor. Observations also revealed a slight hydrocarbon sheen on the water surface

- Analytical results of groundwater collected from monitoring well MW-1 indicated that the sample did not contain reportable concentrations of petroleum hydrocarbons or fuel oxygenate compounds.

- Analytical results of groundwater collected from monitoring well MW-2 indicated the presence of TPH-G (290 micrograms per liter [µg/L]), MTBE (0.6 µg/L), toluene (32 µg/L), ethylbenzene (26 µg/L), and total xylenes (110 µg/L). With exception to MTBE, no other analyzed fuel oxygenate compounds were reported in the groundwater sample from MW-2.

- Three 55-gallon drums of purged groundwater remain at the site pending surface discharge or removal and treatment.

Recommendations

Based on groundwater sample analytical results and observations, Blaes Environmental presents the following recommendations.

- Due to the position of the screened interval at MW-1, the top of which is approximately nine feet below the groundwater surface, and the limited data regarding subsurface conditions at the site, it is suggested that a new monitoring well be installed to replace MW-1. If it is learned that the groundwater surface is at approximately 24 feet below ground surface (bgs), then MW-1 should be abandoned after completion of the new well. It is possible that MW-1 (screened from 33 to 43 feet bgs) was intended to monitor a confined saturated horizon. If so, MW-1 will not be replaced.
- Surge and bail monitor well MW-2 to remove debris and re-establish communication to the saturated horizon. If possible, determine the screened interval at MW-2 to validate groundwater sample results. Monitor well MW-2 also requires a new well vault.
- At a minimum, install up to two additional monitor wells to further assess groundwater conditions beneath the site and define the lateral extent of dissolved hydrocarbons detected at MW-2.
- Collect and analyze soil samples from the soil boring drilled for replacement of monitor well MW-1.
- Establish a quarterly groundwater monitoring program for the site.
- Observations indicated that several wash drains, clarifiers, and former hydraulic lifts are present at the site. It is suggested that upon removal, soil samples be collected beneath these items. This will decrease the risk of future environmental liability with such features.

The result of these recommendations is to ultimately support a request for site closure. Presently, the two wells at the site do not provide enough data to pursue site closure.

This letter summarizes groundwater sampling activities conducted on October 21, 1999. If you have any questions or need additional information, please call either of the undersigned.

Sincerely,
Blaes Environmental

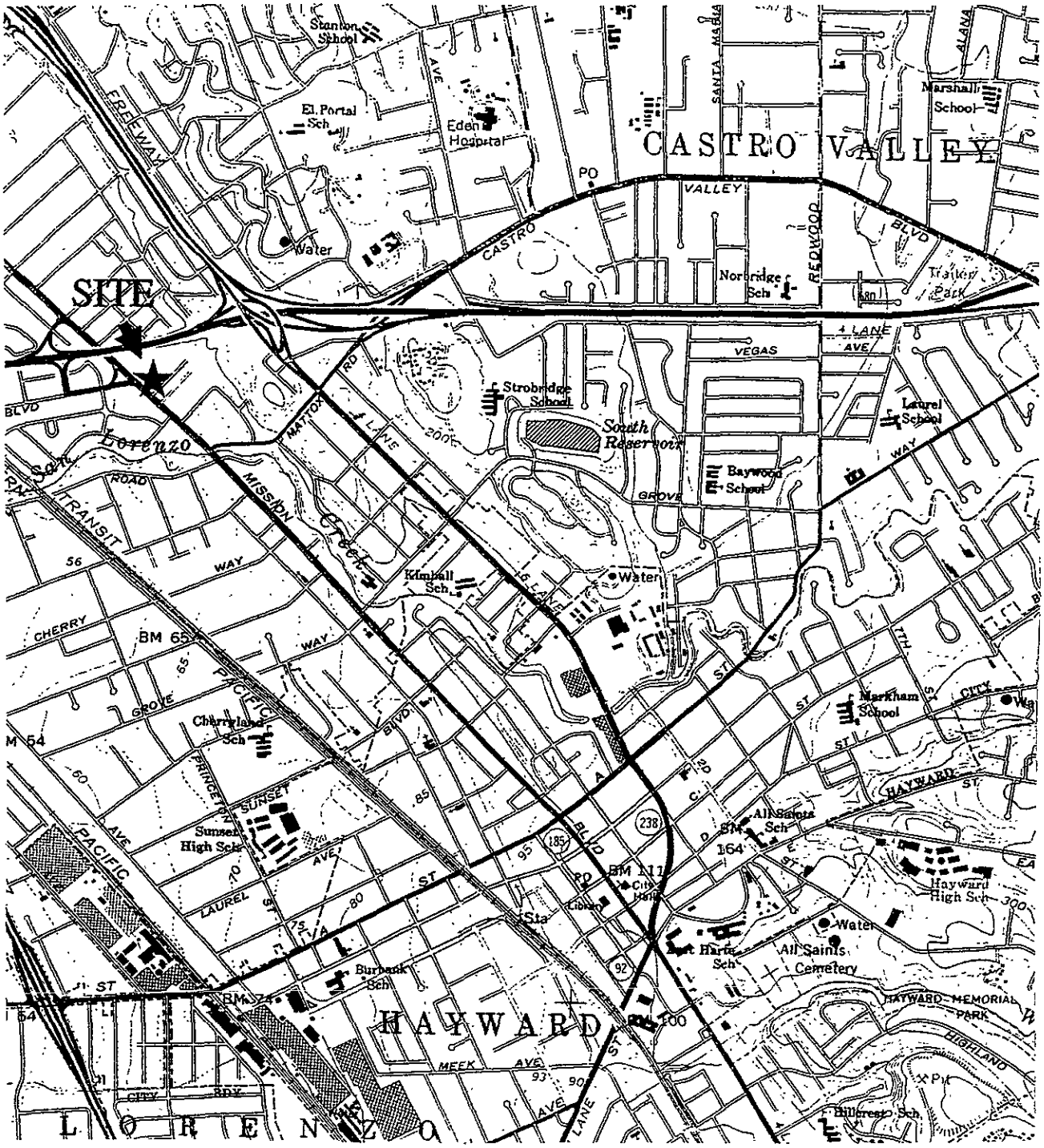
Brett McDaniel
Project Geologist

Stephen Brinigar, P.E.
California Registered Civil Engineer #C53111

REGISTERED PROFESSIONAL ENGINEER
STEPHEN CROSBY BRINIGAR
No. C 53111
Exp. 06/02
CIVIL
STATE OF CALIFORNIA

Attachments:
A) Figures 1 and 2 - Site Location and Site Map, respectively
B) Table 1 - Groundwater Monitoring Results
   Table 2 - Summary of Groundwater Sample Analytical Results
C) Description of Groundwater Sampling Procedures
D) Certified Analytical Laboratory Report

ATTACHMENT A



Base Map - USGS 7.5 Minute Quadrangle, Hayward

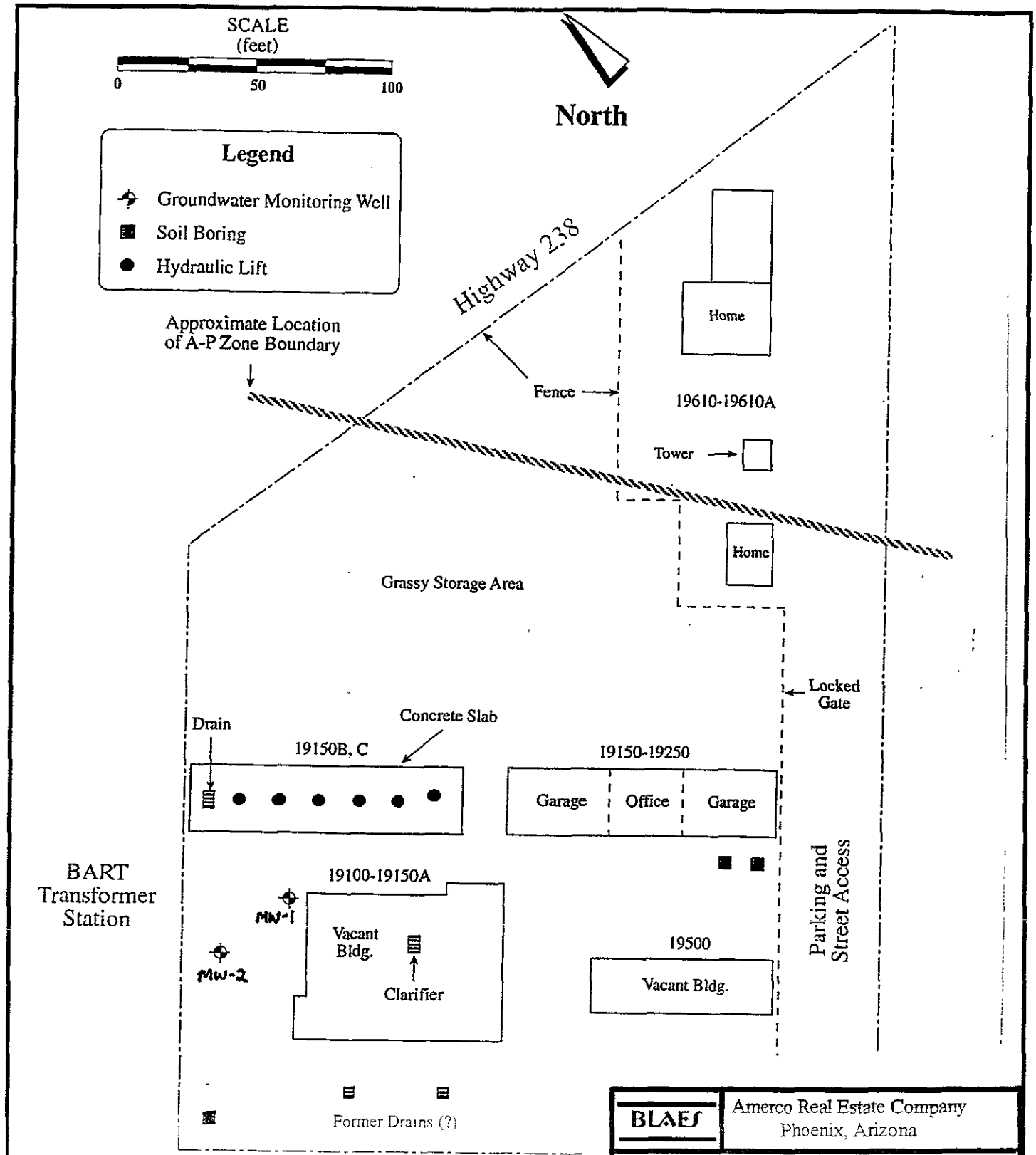
NORTH

Reprinted from Pinnacle Environmental's Environmental Site Assessment Report

SCALE (feet)

0 2000 4000

BLAES	Amerco Real Estate Company Phoenix, Arizona
U-Haul Property 19100 - 19600 Mission Blvd. Alameda County, California	
11/99	Project #001-00008-01 — Figure 1
File Name alameda1	Drawn By: D Blaes



Reprinted from Pinnacle Environmental's
Environmental Site Assessment Report

BLAES	Amerco Real Estate Company Phoenix, Arizona
U-Haul Property 19100 - 19600 Mission Blvd. Alameda County, California	
11/99	Project #001-00008-01 — Figure 2
File Name: alameda2	Drawn By: D. Blaes

ATTACHMENT B

Project No. 001-0008-01
Task No.: 0032
Client: Amerco Property
Site: Mission Bldv.
Hayward, CA

Table 1 - Groundwater Monitoring Data

Date : 10/21/99

Groundwater Monitoring Data

Well ID	Time	Depth to Groundwater (ft. bgs)	Well Diam (inches)	Total Depth (feet)	Calc. Purge Vol. (gal)	Act. Purge Vol. (gal)
MW-1	2:25	23.98	2	43.2	10.3	11
MW-2	2:35	24.00	6	49	112.5	35

Groundwater Purging Data

Well I.D.	Time	Gallons	Cond.	Cond.	Salinity (mS/L)	Temp (deg. C)
MW-1	2:54	0				
	3:02	8	1145	1292	0.6	19.1
	3:05	11	1140	1287	0.6	19
MW-2	3:24	0				
	3:30	6	Hydrogen Sulfide odor and a sheen on water			
	3:34	10	118.1	133.3	0.1	19
	3:44	20	105.5	119.3	0.1	18.9
	4:00	35	Pump ceased. Likely due to debris in well casing.			

TABLE 2

Summary of
Groundwater Sample Analytical Results

AMERCO Property
Mission Blvd., Hayward, CA

Sample I.D.	Sample Date	Using EPA Method 8015/8020					
		TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/l)	MTBE (ug/L)
MW-1-1099	10/21/99	<50	<0.5	<0.5	<0.5	<1	<3
MW-2-1099	10/21/99	290	<0.5	25	21	96	<3

Sample I.D.	Sample Date	Using EPA Method 8260					
		Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/l)	MTBE (ug/L)	Other Fuel Oxygenates (ug/L)
MW-1-1099	10/21/99	<0.5	<0.5	<0.5	<0.5	<0.5	ND
MW-2-1099	10/21/99	<0.5	32	26	110	0.6	ND

NOTES:
TPHg = total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-Butyl Ether
ug/L = micrograms per Liter
<0.5 = Analyte not detected above indicated reporting limit
ND = Analytes not detected above reporting limit

ATTACHMENT C

GROUNDWATER MONITORING AND SAMPLING PROCEDURES

Groundwater Depth Measurements

Groundwater depth measurements were obtained at each groundwater monitoring well using a Heron interface probe. Groundwater depth measurements were recorded from a mark that is typically on the north side of the top of the uncapped PVC monitoring well casing. The groundwater elevation in each well is calculated by subtracting the measured depth to groundwater from the surveyed well head elevation established at the designated measuring point on the top of the each PVC monitoring well casing.

The interface probe was decontaminated prior to arrival on the site and between each groundwater monitoring well. Decontamination procedures include washing the probe with a non-phosphate detergent and tap water followed by rinsing with deionized water.

Groundwater Monitoring Well Purging Procedures

Each groundwater monitoring well was purged using a new disposable Teflon bailer or a Whale In-Line 925, 12 volt D.C. pump. Purged groundwater from each monitoring well was simply recycled into the existing water treatment system.

During the purging process in each well, field parameters such as salinity, conductivity, and groundwater temperature were recorded in approximate 4 to 10 gallon intervals. The final stabilized field parameters for each well are recorded on the field log sheets.

ATTACHMENT D

Columbia Analytical Services INC.
An Employee-Owned Company

October 29, 1999

Service Request No.: S9903283

Mr. Daniel Blaes
BLAES ENVIRONMENTAL
202 E. Earl Drive
Suite #478
Phoenix, AZ 85012

RE: **Amerco-Alameda/001-0008-01**

Dear Mr. Blaes:

Enclosed are the results of the sample(s) submitted to our laboratory on October 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 10, 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

3334 Victor Court ▪ Santa Clara, CA 95054 ▪ Telephone (408) 748-9700 ▪ Fax (408) 748-9860

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:	Blaes Environmental	**Service Request:**	S9903283
Project:	Amerco-Alameda/001-0008-01	**Date Collected:**	10/21/99
Sample Matrix:	Water	**Date Received:**	10/22/99

Fuel Oxygenates

Sample Name:	MW-2-1099		
Lab Code:	S9903283-001	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
tert-Butyl Alcohol	EPA 5030A	8260	50	1	NA	10/28/99	ND	
Methyl *tert*-Butyl Ether	EPA 5030A	8260	0.5	1	NA	10/28/99	0.6	
Diisopropyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
Ethyl *tert*-Butyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
tert-Amyl Methyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
Benzene	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Toluene	EPA 5030A	8260	0.5	1	NA	10/28/99	32	
Ethylbenzene	EPA 5030A	8260	0.5	1	NA	10/28/99	26	
Total Xylenes	EPA 5030A	8260	0.5	1	NA	10/28/99	110	

Approved By _____ Date: 10-29-99

(S44021397p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Blaes Environmental	**Service Request:**	S9903283
Project:	Amerco-Alameda/001-0008-01	**Date Collected:**	10/21/99
Sample Matrix:	Water	**Date Received:**	10/22/99

Fuel Oxygenates

Sample Name:	MW-1-1099		
Lab Code:	S9903283-002	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
tert-Butyl Alcohol	EPA 5030A	8260	50	1	NA	10/28/99	ND	
Methyl *tert*-Butyl Ether	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Diisopropyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
Ethyl *tert*-Butyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
tert-Amyl Methyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
Benzene	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Toluene	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Ethylbenzene	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Total Xylenes	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	

Approved By _____ Date. 10-29-99

IS-4/021397,p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Blaes Environmental	**Service Request:**	S9903283
Project:	Amerco-Alameda/001-0008-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Fuel Oxygenates

Sample Name:	Method Blank (MS01)	Units:	ug/L (ppb)
Lab Code:	S991028-WB1	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
tert-Butyl Alcohol	EPA 5030A	8260	50	1	NA	10/28/99	ND	
Methyl *tert*-Butyl Ether	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Diisopropyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
Ethyl *tert*-Butyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
tert-Amyl Methyl Ether	EPA 5030A	8260	5	1	NA	10/28/99	ND	
Benzene	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Toluene	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Ethylbenzene	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	
Total Xylenes	EPA 5030A	8260	0.5	1	NA	10/28/99	ND	

Approved By: _____ Date: 10-29-99

1S44/02.397p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Blaes Environmental
Project: Amerco-Alameda/001-0008-01
Sample Matrix: Water

Service Request: S9903283
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
Fuel Oxygenates

Prep Method: EPA 5030A
Analysis Method: 8260

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery Dibromofluoromethane	Percent Recovery Toluene-D8	Percent Recovery 4-Bromofluorobenzene
MW-2-1099	S9903283-001		92	100	95
MW-1-1099	S9903283-002		93	100	92
Method Blank (MS01)	S991028-WB1		92	100	89
		EPA Acceptance Limits:	86-118	88-110	86-115

Approved By [signature] Date. 10-29-99

SUR2/020597n

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Blaes Environmental	**Service Request:**	S9903283
Project:	Amerco-Alameda/001-0008-01	**Date Collected:**	10/21/99
Sample Matrix:	Water	**Date Received:**	10/22/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	MW-2-1099	Units:	ug/L (ppb)
Lab Code:	S9903283-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	10/26/99	290	
Benzene	EPA 5030	8021B	0.5	1	NA	10/26/99	ND	
Toluene	EPA 5030	8021B	0.5	1	NA	10/26/99	25	
Ethylbenzene	EPA 5030	8021B	0.5	1	NA	10/26/99	21	
Xylenes, Total	EPA 5030	8021B	1	1	NA	10/26/99	96	
Methyl *tert*-Butyl Ether	EPA 5030	8021B	3	1	NA	10/26/99	ND	

Approved By _____ Date 10-29-99

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Blaes Environmental	**Service Request:**	S9903283
Project:	Amerco-Alameda/001-0008-01	**Date Collected:**	10/21/99
Sample Matrix:	Water	**Date Received:**	10/22/99

BTEX, MTBE and TPH as Gasoline

Sample Name:	MW-1-1099		
Lab Code:	S9903283-002	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	10/26/99	ND	
Benzene	EPA 5030	8021B	0.5	1	NA	10/26/99	ND	
Toluene	EPA 5030	8021B	0.5	1	NA	10/26/99	ND	
Ethylbenzene	EPA 5030	8021B	0.5	1	NA	10/26/99	ND	
Xylenes, Total	EPA 5030	8021B	1	1	NA	10/26/99	ND	
Methyl *tert*-Butyl Ether	EPA 5030	8021B	3	1	NA	10/26/99	ND	

Approved By _____ Date 10-29-99

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Blaes Environmental	**Service Request:**	S9903283
Project:	Amerco-Alameda/001-0008-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

BTEX, MTBE and TPH as Gasoline

Sample Name:	Method Blank		
Lab Code:	S991026-WB1	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	10/26/99	ND	
Benzene	EPA 5030	8021B	0.5	1	NA	10/26/99	ND	
Toluene	EPA 5030	8021B	0.5	1	NA	10/26/99	ND	
Ethylbenzene	EPA 5030	8021B	0.5	1	NA	10/26/99	ND	
Xylenes, Total	EPA 5030	8021B	1	1	NA	10/26/99	ND	
Methyl *tert*-Butyl Ether	EPA 5030	8021B	3	1	NA	10/26/99	ND	

Approved By _____ Date 10-29-99

(S12/020597)

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Blaes Environmental
Project: Amerco-Alameda/001-0008-01
Sample Matrix: Water

Service Request: S9903283
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
BTEX, MTBE 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 4-Bromofluorobenzene	Percent Recovery a,a,a-Trifluorotoluene
MW-2-1099	S9903283-001		97	106
MW-1-1099	S9903283-002		99	100
Method Blank	S991026-WB1		89	108
CAS Acceptance Limits:			69-116	72-139

Approved By Lori [signature] Date: 10-29-99

SUR2/020197p

Columbia Analytical Services, Inc.
3334 Victor Court • Santa Clara, CA 95054
(408) 748-9700 • FAX (408) 748-9860

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

SERVICE REQUEST NO. 9903283 P.O.# PAGE 1 OF 1

PROJECT NAME Amoco-Alameda, 001-0008-01
PROJECT MGR B. McDaniel/Dan Blaes
COMPANY Blaes Environmental
ADDRESS 202 E. Earll Dr. #478
PHX, AZ 85012 PHONE 602 728 0707
SAMPLER'S SIGNATURE FAX 728 0708

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	HNO3	HCl	HCl	NP	NP	NP	HCl	H2SO4	NP	H2SO4	MeOH	REMARKS *
						Volatile Organics BY GCMS 624 ☐ 8240 ☐ 8260 ☐	Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐ 8021 ☐	TPH as Gas/BTEX ☐ TPH as Gas/BTEX/MTBE ☐	TPH as Diesel ☐ HBHC ☐	Base/Neu/Acid Organics / GCMS 625 ☐ 8270 ☐	Pesticides & PCBs 608/8080 ☐ Pesticides only 8081 ☐ PCBs 8082 ☐	TRPH - 418.1 ☐ Oil and Grease Method	Metals Indicate below Total ☐ Dissolved ☐	pH, Cond., Cl, SO4, F, TDS, TSS Alk., NO3, NO2 (circle)	NH3-N, COD, Total-P, TKN, TOC NO3 / NO2, Phenols (circle)	Cyanide	+ Final Additives 8260 Oxygenates		
MW-2-1099	10/21	4:45	①	H2O	4			X									X	
MW-1-1099	10/21	5:00	②	H2O	4			X									X	

RELINQUISHED BY:
Signature
Printed Name Brad McDaniel
Firm Blaes
Date/Time 10/22/99 2:00 pm

RECEIVED BY:
Signature
Printed Name
Firm CRS/SC
Date/Time 10/22/99 1400

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

SAMPLE RECEIPT: Condition Custody Seals

TURNAROUND REQUIREMENTS
___ 1 day ___ 2 day ___ 3 day
X 5 day ___ Other
XX Standard (10 working days)
Results Due 11/5/99 10/29/99

REPORT REQUIREMENTS
___ I. Routine Report
___ II. Report (includes MS, MSD, as required, may be charged as samples)
___ III. Data Validation Report (includes All Raw Data)
___ MDLs/PQLs-Trace #
___ Electronic Data Deliverables

SPECIAL INSTRUCTIONS/COMMENTS:
Circle which metals are to be analyzed:
Metals: Al Sb Ba Be B Cd Ca Cr Co Cu Fe Mg Mn Mo Ni K Ag Na Sn V Zn
As Pb Se Tl Hg

R11/D3-A
Storage: R11/D2

Will these results be used in connection with drinking water regulations? ___ Yes X No If yes, you must so indicate by writing "DW" for each such sample.

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