RO 501

BLAES ENVIRONMENTAL MANAGEMENT, INC.

October 31, 2003

Mr. Robert Westin
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94602

Re: Well Installation and Groundwater Monitoring Report
19100-19600 Mission Boulevard
Hayward, California

Dear Mr. Westin:

Blaes Environmental Management, Inc. (Blaes Environmental), on behalf of Amerco Real Estate Company /U-Haul International, is submitting the *Well Installation and Groundwater Monitoring Report, 2003* for the above-mentioned facility (the site). If you have any questions please call me at (602) 728-0707.

Sincerely,

Blaes Environmental Management, Inc.

Steven Woodhull
Staff Geologist

cc: Reid Riner, U-Haul

1433 North Third Avenue, Phoenix, Arizona 85003
Telephone: (602) 728-0707 Fax: (602) 728-0708

RO 501

WELL INSTALLATION AND GROUNDWATER MONITORING REPORT

AMERCO REAL ESTATE COMPANY PROPERTY
ALAMEDA COUNTY ASSESSOR PARCEL
NUMBERS 414-11-4-6 AND 414-11-4-7
19100 – 19600 MISSION BOULEVARD
HAYWARD, CALIFORNIA

Prepared For:

AMERCO REAL ESTATE COMPANY/U-HAUL INTERNATIONAL
2727 NORTH CENTRAL AVENUE, SUITE 500
PHOENIX, ARIZONA 85004

Prepared By:

BLAES ENVIRONMENTAL MANAGEMENT, INC.
1433 NORTH THIRD AVENUE
PHOENIX, ARIZONA 85003

BLAES PROJECT #001-00008-02

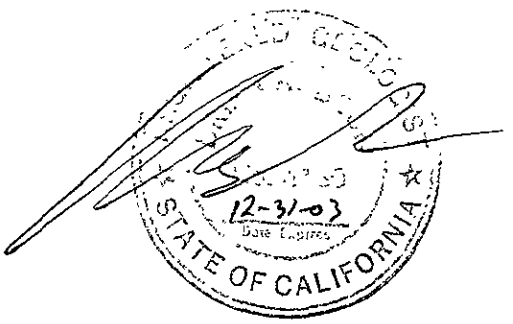
OCTOBER 16, 2003

This Well Installation and Groundwater Monitoring Report has been prepared by Blaes Environmental Management, Inc. for the exclusive use of Amerco Real Estate Company/U-Haul International, Inc. (Amerco/U-Haul) as it pertains to the Amerco Property located at 19100-19600 Mission Boulevard in Hayward, California. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists, engineers, and environmental consultants practicing in this field. No other warranty, express or implied, is made as to the professional advice in this report. *Any use of or reliance on this report by a third party shall be at such a party's sole risk.*

Blaes Environmental Management, Inc. can offer no assurances and assumes no responsibility for site conditions or activities outside the scope of the inquiry requested by Amerco Real Estate Company/U-Haul International, Inc. as outlined in this document. It should be understood by all parties that Blaes Environmental Management, Inc. has relied on the accuracy of documents, oral information, and other materials, services, and information provided by Amerco Real Estate Company/U-Haul International, subcontractors, and other associated parties. Any subsequent modification, revision or verification of this report must be provided in writing by Blaes Environmental Management, Inc.

REPORT PREPARED BY:

Steven Woodhull
Blaes Environmental Management, Inc.
Project Geologist



REPORT REVIEWED BY

Daniel Blaes
President
Blaes Environmental Management, Inc.

Brian A. Beck, R.G.
California Registration No. G4180
Beck Environmental & Remediation, Ltd.

Blaes Project #001-00008-02

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

This report documents the procedures and findings of monitoring well installation activities and a groundwater monitoring and sampling event conducted at the Amerco Real Estate Company Property (the site) located at 19100 - 19600 Mission Boulevard in Hayward, California (Figure 1). Blaes Environmental Management, Inc. (Blaes Environmental) conducted the well installation in April 2003 and the groundwater monitoring event in June 2003 at the request and authorization of Amerco Real Estate Company/U-Haul International, Inc. (Amerco/U-Haul). This investigation was conducted in response to the detection of petroleum hydrocarbons initially encountered in the soil and groundwater during an underground storage tank (UST) removal program conducted at the site in 1990. The objective of this investigation was to evaluate the extent and concentration of dissolved-phase petroleum hydrocarbons in the groundwater at the site.

2.0 SITE BACKGROUND

2.1 SITE LOCATION AND DESCRIPTION

The subject property consists of approximately 2.73 acres (comprised of two adjacent properties) located immediately south of State Highway 238 and northeast of Mission Boulevard in Hayward, California. The site is currently an empty lot with no surface cover. Several vacant structures formerly occupied the site; however, all structures have since been removed. The former structures included two multi-story residential buildings, a water tower/pump house, and two single-story commercial buildings. The current site features are shown on the Site Map in Figure 2. The former site features are shown on the Site Map from Pinnacle Environmental's Environmental Site Assessment Report (1998) presented in Appendix A.

2.2 LOCAL HYDROLOGY

The nearest surface water is San Lorenzo Creek, located approximately 0.2 miles south of the site. Based on observations from the installation of MW-1, the depth to groundwater was estimated at approximately 32 feet below the ground surface (bgs) in late 1992. The average depth to water encountered at the site during this investigation was 22.49 feet below the ground surface.

2.3 GENERAL LITHOLOGY OF THE SITE

As identified during well installation activities, subsurface sediments at the site consist predominantly of clays and silty clays to a depth of approximately 34 feet bgs, where an eight foot thick sand unit was encountered. The sand unit was underlain by clay from 42 to 43 feet bgs, where the boring was terminated.

2.4 SUMMARY OF UST REMOVAL AND PREVIOUS GROUNDWATER MONITORING

According to the Geocon Environmental Consultants Preliminary Site Assessment Report (1994), a 550-gallon unleaded gasoline UST and a 280-gallon waste-oil UST were removed from the site on June 5, 1990 by Decon Environmental Services, Inc. (DES). One soil sample was obtained from beneath the center of each tank pit at a depth of approximately one-foot below the bottom of the tank excavation. The analytical test results from the soil sample collected from beneath the gasoline UST for total petroleum hydrocarbons as gasoline (TPHg) indicated no detectable concentrations. Benzene and Toluene concentrations of 4 and 3 parts per billion (ppb), respectively, were detected The soil sample collected

from beneath the waste oil tank was analyzed for total oil and grease. The analytical test results indicated 51 parts per million (ppm) total oil and grease in the sample.

Additional soil was removed from the tank excavation beneath the location of the former waste oil UST on June 8, 1990. Soil samples were collected from the tank pit at depths of one, two, and three feet below the bottom of the tank pit. Two of the tank pit samples (one and three feet below the excavation bottom) were analyzed for total oil and grease. Oil and grease concentrations in the sample from a depth of one foot were reported to be 140 ppm. Oil and grease concentrations in the soil sample obtained from a depth of three feet were below detectable limits.

Subsequent investigative work at the site was required by the Alameda County Health Care Services Agency (ACHCSA). On November 6, 1992, one well (MW-1) was installed at the site near the former location of the gasoline UST and single dispenser. Soil samples taken at five foot intervals to a total depth of 43 feet for monitoring well MW-1 were analyzed for concentrations of TPHg, total petroleum hydrocarbons as diesel (TPHd) and as motor oil (TPHmo), Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX), and halogenated volatile organics. No detectable concentrations of the constituents listed above were reported. A second monitor well (MW-2) was found by Pinnacle during a site visit conducted in March 1998. No records could be found regarding the installation or construction details of MW-2.

Following installation, a groundwater sample from MW-1 was collected and analyzed for the same constituents as the soil samples. No detectable concentrations of the above listed constituents were reported in the groundwater sample. Groundwater monitoring well MW-1 was sampled again on December 7, 1992. The groundwater sample was analyzed for the same constituents analyzed in the samples obtained during the soil and groundwater investigation. TPHg concentrations of 78 ppb, and Ethylbenzene and Total Xylene concentrations of 1.6 and 6.4 ppb, respectively were reported. Two additional groundwater monitoring events were conducted on March 15, 1993 and June 10, 1993. No detectable concentrations of the above listed constituents were reported in either well (Geocon, 1994)

Pinnacle sampled monitoring wells MW-1 and MW-2 again in March 1998. The samples did not contain concentrations of TPHG, BTEX, or MTBE above detection limits. However, the screened interval of

well MW-1 (33 to 43 feet bgs) was below the measured depth to groundwater (15.91 feet below top of casing), indicating that groundwater may be under confined conditions and that the analytical results may not be representative of TPHG and BTEX concentrations at depth (Pinnacle, 1998).

Blaes Environmental also conducted another groundwater monitoring event at the site on October 21, 1999. 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). 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.

3.0 WELL INSTALLATION AND GROUNDWATER MONITORING ACTIVITIES

Based on the detection of petroleum hydrocarbons in the soil and groundwater following the tank removal program and subsequent periodic groundwater monitoring events, Amerco/U-Haul authorized Blaes Environmental to investigate the extent of petroleum hydrocarbon impacted groundwater at the site. The investigation involved three tasks including: (1) drilling and installing groundwater monitoring wells (MW-3, MW-4, MW-5, MW-6, and MW-7) on the site property; (2) collecting groundwater samples; and (3) analyzing the groundwater samples at a California certified laboratory. This section presents a description of the equipment, procedures, and findings of monitor well installation and subsequent groundwater monitoring activities.

3.1 DRILLING AND WELL INSTALLATION ACTIVITIES

On April 24 and 25, 2003, Blaes Environmental supervised the installation of five groundwater monitoring wells at the site. One monitoring well (MW-3) was installed in the area next to the former UST's and fuel dispenser. Two monitoring wells (MW-2 and MW-4) were installed approximately 30 and 70 feet south of the former UST locations. The remaining two monitoring wells (MW-6 and MW-7) were installed approximately 25 and 70 feet north of the former UST locations. The locations of the monitoring wells are shown on the site map (Figure 2). The following sections describe the subtasks associated with the drilling and well installation program.

3.1.1 Health and Safety Meeting

Prior to initiating field activities, Blaes Environmental conducted a health and safety meeting at the site. Attendees at the meeting included each member of the drilling crew and the Blaes Environmental staff member. During the meeting, the Health and Safety Plan was reviewed and discussed by all personnel. The field program was conducted in strict adherence with the provisions described in the site-specific Health and Safety Plan.

3.1.2 Drilling Activities

On April 24, 2003, a California licensed drilling company drilled five soil borings on the site property using a CME-75 hollow-stem auger drilling rig. Soil boring MW-3 was drilled within the location of

the former fuel USTs and fuel dispenser. Soil borings MW-2 and MW-4 were drilled approximately 30 and 70 feet south of the former UST locations. The remaining two soil borings, MW-6 and MW-7, were drilled approximately 25 and 70 feet north of the former UST locations. Soil borings MW-3, MW-4, MW-5, and MW-7 were each drilled to a depth of approximately 30 feet bgs. Soil boring B-6 was drilled to approximately 42 feet bgs. Subsurface sediments observed from soil borings MW-3, MW-4, MW-5, and MW-7 consist predominantly of clays and silty clays to a depth of approximately 30 feet bgs. Subsurface sediments observed from soil boring MW-6 consist predominantly of clays and silty clays to a depth of approximately 33.5 feet bgs and sand and gravelly sand from 33.5 to 42 feet bgs.

Based on the boring log of MW-1, historic groundwater levels, and the lack of observed groundwater within MW-6 to 33.5 feet bgs, it was suspected that groundwater was under confined conditions within the sand unit observed from approximately 33.5 to 42 feet bgs. As such, MW-6 was screened from 31 to 40 feet bgs. During subsequent drilling activities, it was discovered that groundwater was present above the sand unit at approximately 23 feet bgs. As such, the remaining monitoring wells (MW-3, MW-4, MW-5, and MW-7) were screened from 10 to 30 feet bgs.

3.1.2.1 Soil Sampling

Soil samples were collected from soil borings MW-3 through MW-7 at five-foot depth intervals beginning at a depth of approximately five feet bgs. Blaes Environmental logged the physical characteristics of the soil samples from each soil boring using the Unified Soil Classification System (USCS) in order to evaluate stratigraphy and visually verify the absence or presence of petroleum hydrocarbons. Soil samples were collected using a modified California split-spoon sampler consisting of an outer sampling barrel lined with three 6-inch long brass sample sleeves. Lithologic descriptions from the soil borings are presented in Appendix B.

3.1.2.2 Soil Disposal

Excess soil cuttings generated during the drilling program were containerized in 11 Department of Transportation (DOT) 17H 55-gallon steel drums. The soil drums were labeled and left on-site pending proper treatment/disposal. On September 17, 2003, Integrated Waste Management, Inc. (IWM) removed the soil drums from the site and transported them to Republic Services Vasco Road Landfill in Livermore, California for treatment and disposal. The certificate of disposal is included in Appendix C.

3.1.3 Monitoring Well Installation and Development

Upon completion of each of the five soil borings, each soil boring was converted into a 2-inch diameter Schedule 40 PVC groundwater monitoring well. Monitoring wells MW-3, MW-4, MW-5, and MW-7 consist of 20-feet of slotted well casing (0.020-inch slots) installed from depths of approximately 10-feet to 30-feet bgs. Monitoring well MW-6 consists of nine feet of slotted well casing (0.020-inch slots) installed from a depth of approximately 31-feet to 40-feet bgs. In each monitoring well, blank well casing was installed above the screen interval to the ground surface. A sand pack was placed in the annular space between the slotted well casing and the borehole wall from the bottom of each boring to approximately one foot above the screened interval. A layer of hydrated bentonite was placed in the annular space above the sand pack. The remaining annular space was filled with cement grout to the ground surface. At the ground surface, the monitor wells were capped and enclosed within 12-inch diameter, flush mounted, locking well box, and cemented in place. Due to the lack of an existing well box for MW-2, a 24-inch square locking well box was also installed over the monitoring well. Well construction diagrams are presented in Appendix D.

Following well installation, the two existing monitoring wells (MW-1 and MW-2) as well as the five recently installed monitoring wells (MW-3, MW-4, MW-5, MW-6, and MW-7) were developed. Each well was surged approximately 50 times to allow communication of the well fluids with the surrounding formation fluids. Groundwater monitoring wells MW-1, MW-3, MW-4, MW-5, MW-6, and MW-7 were purged of 20 to 30-gallons of water (until the water was clear of sediment) using a stainless steel bailer. Groundwater monitoring well MW-2 was purged of 55-gallons of water using a stainless steel bailer. A total of 180-gallons of groundwater was purged from the monitoring wells on-site.

Groundwater developed from each well was contained on site in Department of Transportation (DOT) 17H 55-gallon drums pending analytical results and proper recycling or disposal. Each drum was labeled with the site name, address, date, contents (water), and well number. The water generated during development activities was transported to a recycling facility for treatment and disposal with the purged groundwater generated during the scheduled groundwater monitoring and sampling event.

3.1.4 Monitor Well Survey

On June 19, 2003, Morrow Surveying, located in West Sacramento, California, conducted a level survey of each of the groundwater monitoring wells at the site. The objective of the survey was to obtain the elevation of the top of the well casing for each well. These measurements together with the groundwater depth measurements within each well were used to calculate the elevation of the groundwater surface body below the site and the resultant groundwater flow direction. The Monitor Well Survey Report is included in Appendix E.

3.2 GROUNDWATER MONITORING AND SAMPLING

On June 3 and 4, 2003, Blaes Environmental returned to the site to conduct a groundwater monitoring and sampling event. A description of each task associated with groundwater monitoring and sampling activities is presented in the following sections.

3.2.1 Groundwater Depth Measurements

Blaes Environmental measured the depth to groundwater in monitoring wells MW-1 through MW-7 to the nearest 0.01-foot using a Heron™ water level meter. The water level meter was decontaminated with an Alconox™ wash and tap water rinse prior to initiating groundwater depth measurements and between each well. Groundwater depth measurements were performed in accordance with industry standards and followed the requirements described in documents ASTM D4448-85a and ASTM D5088-90.

The average depth to groundwater recorded during the June 2003 sampling event was 22.49 feet below the top of individual well casings. The average groundwater hydraulic gradient across the site in June 2003 was 0.0065 feet/foot with a groundwater flow direction to the south (Figure 3). In addition to collecting groundwater level information, Blaes Environmental also collected dissolved oxygen readings from the undisturbed water in the wells. Dissolved oxygen measurements were obtained using a YSI–85 dissolved oxygen probe. A summary of the depth to water and dissolved oxygen measurements recorded by Blaes Environmental is provided in Table 1

3.2.2 Groundwater Sampling

Prior to groundwater sampling, Blaes Environmental purged a minimum of three casing volumes of water from each monitoring well. Blaes Environmental purged each well using a portable, 12-volt,

battery operated whale pump. The pump was decontaminated with an Alconox™ wash and tap water rinse prior to initiating the purging process and between each well. All purged groundwater was stored on-site in properly labeled DOT 17H 55-gallon drums pending analytical results and proper recycling and disposal. A description of the purging process is included in Appendix F. A copy of the field notes is presented as Appendix G.

Following purging activities, groundwater samples were collected from each monitoring well using dedicated disposable bailers. Each groundwater sample was decanted from the bailer into laboratory supplied sample containers. The sample containers were sealed with a teflon lined cap, labeled, and placed on ice in a cooler. A written record of each sample was entered onto a chain-of-custody document for transport to the analytical laboratory.

3.2.3 Purged Groundwater Disposal

On September 17, 2003, Integrated Waste Management, Inc. (IWM) removed the six drums containing purged groundwater/development water from the site and transported them to Seaport Refining and Environmental in Redwood City, California for treatment and disposal. The certificate of disposal is included in Appendix H.

3.3 LABORATORY ANALYSIS

3.3.1 Groundwater Laboratory Analytical Results

Groundwater samples were transported, under proper chain-of-custody record, to Sequoia Analytical for laboratory analysis. Each groundwater sample was analyzed for Gasoline Range Organics (GRO), Benzene, Toluene, Ethyl-benzene, and Total Xylenes (BTEX), and Fuel Oxygenates including tert-Butyl alcohol (TBA), Methyl tert-butyl ether (MTBE), Di-isopropyl ether (DIPE), Ethyl tert-butyl ether (ETBE), tert-Amyl methyl ether (TAME), 1,2 Dichloroethane (1,2 DCA), and 1,2 Dibromoethane (EDB) according to EPA Method 8260B. In addition, monitoring wells MW-1 and MW-3 were analyzed for the full list Volatile Organic Compounds (VOC's) according to EPA Method 8260B as well as Polynuclear Aromatic Compounds (PAC's) according to EPA Method 8310

Laboratory analytical results of the groundwater samples collected from monitoring wells MW-1 through

MW-7 indicated no detectable concentrations of GRO, BTEX, TBA, MTBE, DIPE, ETBE, TAME, 1,2 DCA OR EDB above laboratory reporting limits for the June 2003 groundwater sampling event. Additionally, laboratory analytical results of the groundwater samples collected from monitoring wells MW-1 and MW-3 indicated no detectable concentrations of VOC's or PAC's above laboratory reporting limits. A summary of the groundwater laboratory analytical results is presented in Table 2. Copies of the corresponding June 2003 laboratory analytical reports and chain-of-custody documentation are provided in Appendix H.

4.0 CONCLUSIONS

Including the results of the groundwater Site Characterization Investigation, Blaes Environmental has obtained records of at least six groundwater monitoring events that have been conducted at the site since the two UST's were removed in 1990. According to the records obtained by Blaes Environmental, all analytical results for all monitoring wells sampled from the six groundwater sampling events have been below reporting limits with the exception of monitoring well MW-1 on December 7, 1992 (78 ppb THPg, 1.6 ppb Ethylbenzene, and 6.4 ppb Total Xylenes) and MW-2 on October 21, 1999 (290 TPHg, 32 ppb Toluene, 26 ppb Ethylbenzene, 110 ppb Total Xylenes, and 0.6 ppb MTBE). There is no established California Department of Health Services (CDHS) Maximum Contaminant Level (MCL) established for TPHg, and the above results are below the published MCL's of 150, 300, 1,750, and 5.0 ppb for Toluene, Ethylbenzene, Total Xylenes, and MTBE, respectively. Since all laboratory analytical results are below the respective MCL's, and the most recent groundwater sampling event did not indicate the presence of any hydrocarbon compounds above laboratory reporting limits, it appears that the impact to groundwater at the site from the former UST's does not pose a threat to human health or the environment.

5.0 RECOMMENDATIONS

Blaes Environmental recommends drilling additional soil borings and collecting soil samples at the location of the former waste-oil UST to confirm the presence of oil and grease concentrations of 140 ppm detected in the soil sample collected one foot below the bottom of the over-excavation performed in on June 8, 1990.

6.0 REFERENCES

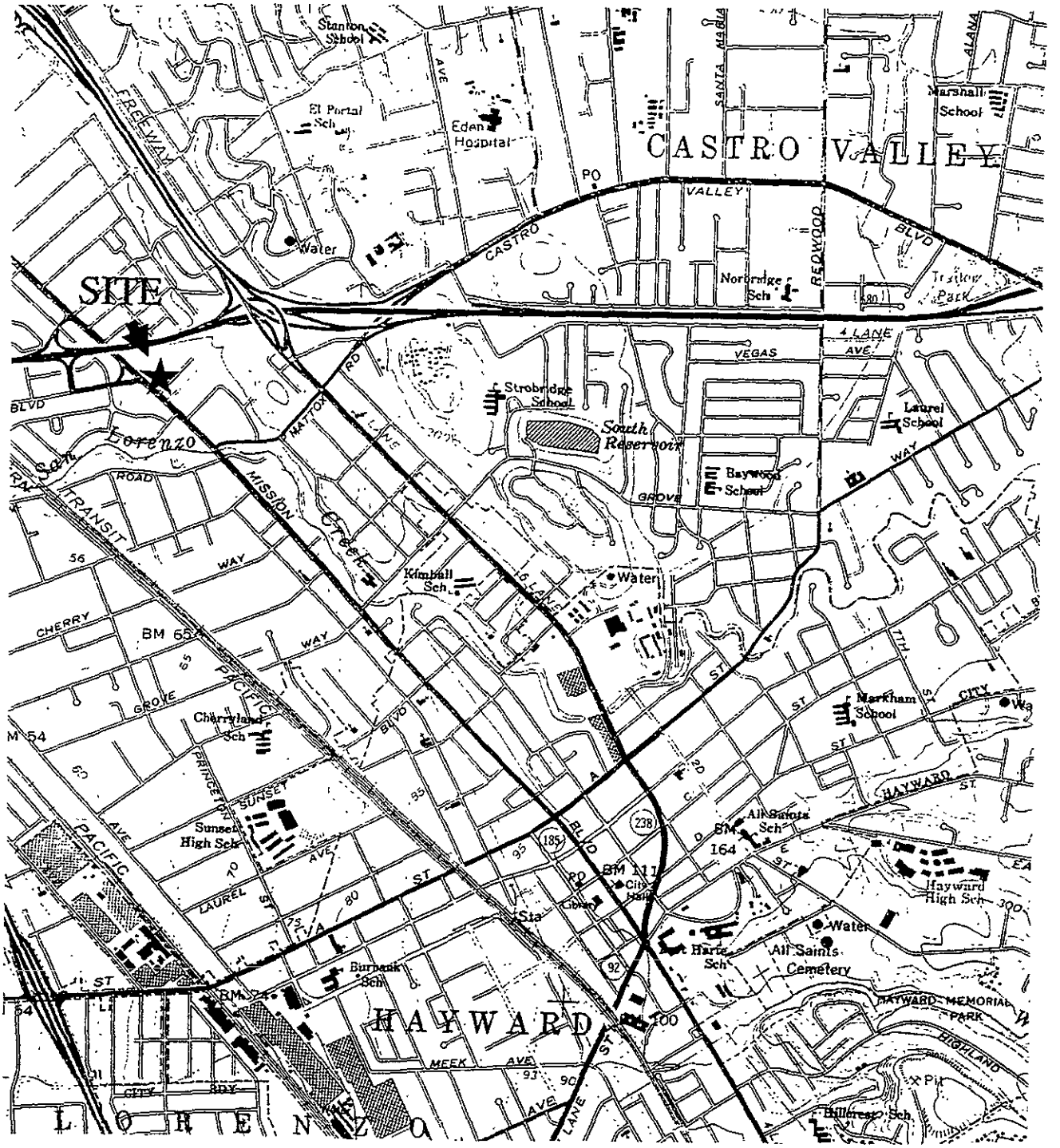
Blaes Environmental Management, Inc, January 17, 2000, Results of Groundwater Sampling Event Conducted on October 21, 1999, Amerco Real Estate Property located at 19100 – 19600 Mission Boulevard, Hayward, California.

Geocon Environmental Consultants, May 10, 1994, Preliminary Site Assessment Report, Amerco Real Estate Property located at 19100 – 19600 Mission Boulevard, Hayward, California.

Pinnacle Environmental Technologies, March 18, 1998, Limited Environmental Site Assessment Report, Amerco Real Estate Property located at 19100 – 19600 Mission Boulevard, Hayward, California.

U.S. Geological Survey (USGS), Hayward, California Quadrangle, 7.5 Minute Series (topographic): Scale 1:24,000, 1 sheet.

FIGURES



Base Map - USGS 7 5 Minute Quadrangle, Hayward

Reprinted from Pinnacle Environmental's Environmental Site Assessment Report

Approximate Scale (feet)

0 2000 4000

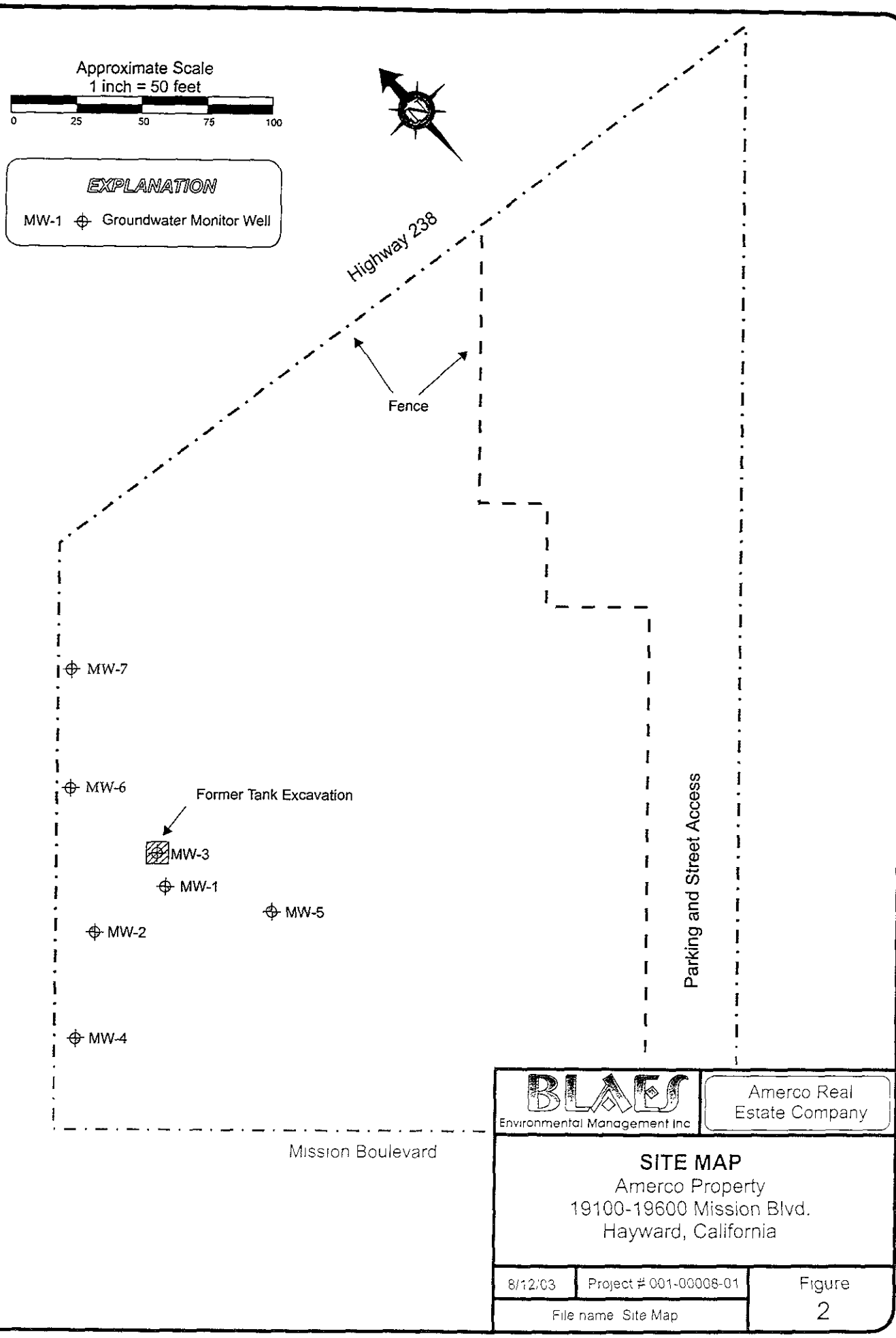
BLAES Environmental Management Inc.

Amerco Real Estate Company

SITE LOCATION MAP

Amerco Property
19100-19600 Mission Blvd.
Hayward, California

8/12/03	Project # 001-00008-01	Figure 1
File name Site Location Map		



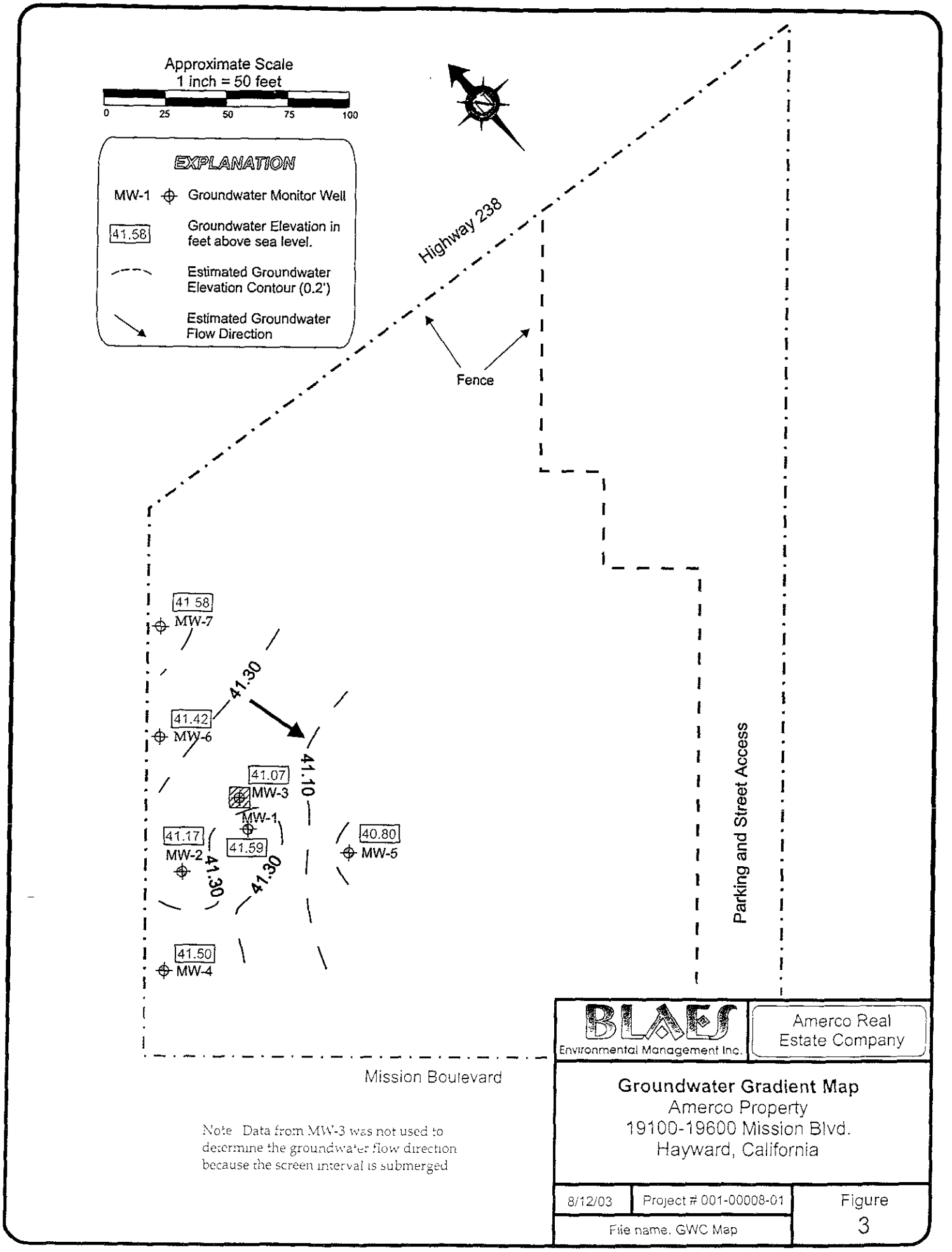
BLAES Environmental Management Inc

Amerco Real Estate Company

SITE MAP

Amerco Property
19100-19600 Mission Blvd.
Hayward, California

8/12/03	Project # 001-00008-01	Figure 2
File name Site Map		


Approximate Scale
1 inch = 50 feet
0
25
50
75
100
EXPLANATION
MW-1 Groundwater Monitor Well
41.58 Groundwater Elevation in feet above sea level.
Estimated Groundwater Elevation Contour (0.2')
Estimated Groundwater Flow Direction
Highway 238
Fence
Parking and Street Access
41.58
MW-7
41.30
41.42
MW-6
41.07
MW-3
41.10
MW-1
41.17
MW-2
41.59
40.80
MW-5
41.30
41.30
41.50
MW-4
Mission Boulevard
Note Data from MW-3 was not used to determine the groundwater flow direction because the screen interval is submerged
BLAES
Environmental Management Inc.
Amerco Real Estate Company
Groundwater Gradient Map
Amerco Property
19100-19600 Mission Blvd.
Hayward, California
8/12/03
Project # 001-00008-01
File name. GWC Map
Figure
3

TABLES

TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA

Amerco Real Estate Company Property
19100 - 19600 Mission Blvd.
Hayward, California

Well ID	Date	Depth to Water (feet)	Groundwater Elevation (feet above MSL)	D.O. (%)	D.O. (mg/l)	Salinity (ppt)	Temperature (degree C)
MW-1	10/21/99	23.98	40.23	NA	NA	0.6	19.1
	6/3/03	22.62	41.59	24.6	2.26	0.5	19.3
MW-2	10/21/99	24.00	39.72	NA	NA	0.1	18.9
	6/3/03	22.55	41.17	14.0	1.26	0.5	19.7
MW-3	6/3/03	22.65	41.07	27.5	2.53	0.7	19.0
MW-4	6/3/03	22.22	41.50	49.4	4.58	0.4	19.5
MW-5	6/3/03	22.92	40.80	51.6	5.04	0.9	19.4
MW-6	6/3/03	22.30	41.42	40.0	3.71	0.5	18.3
MW-7	6/3/03	22.14	41.58	45.1	4.18	0.4	18.5

Notes: D.O. Dissolved Oxygen (YSI 85 D.O. Meter)
NA Not Available

TABLE 2
SUMMARY OF GROUNDWATER LABORATORY ANALYTICAL RESULTS

Amerco Real Estate Company Property
19100 - 19600 Mission Blvd.
Hayward, California

Sample ID	Date	EPA 8260B											EPA 8310
		EPA 8015 Gasoline Range	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	DIPE	ETBE	TAME	MTBE	TBA	Remaining VOC's	PAC's
MW-1	10/21/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<0.5	<50		NA
	6/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	ND	ND
MW-2	10/21/99	290	<0.5	32	26	110	<5.0	<5.0	<5.0	0.6	<50	NA	NA
	6/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	NA	NA
MW-3	6/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	ND	ND
MW-4	6/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	NA	NA
MW-5	6/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	NA	NA
MW-6	6/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	NA	NA
MW-7	6/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	NA	NA

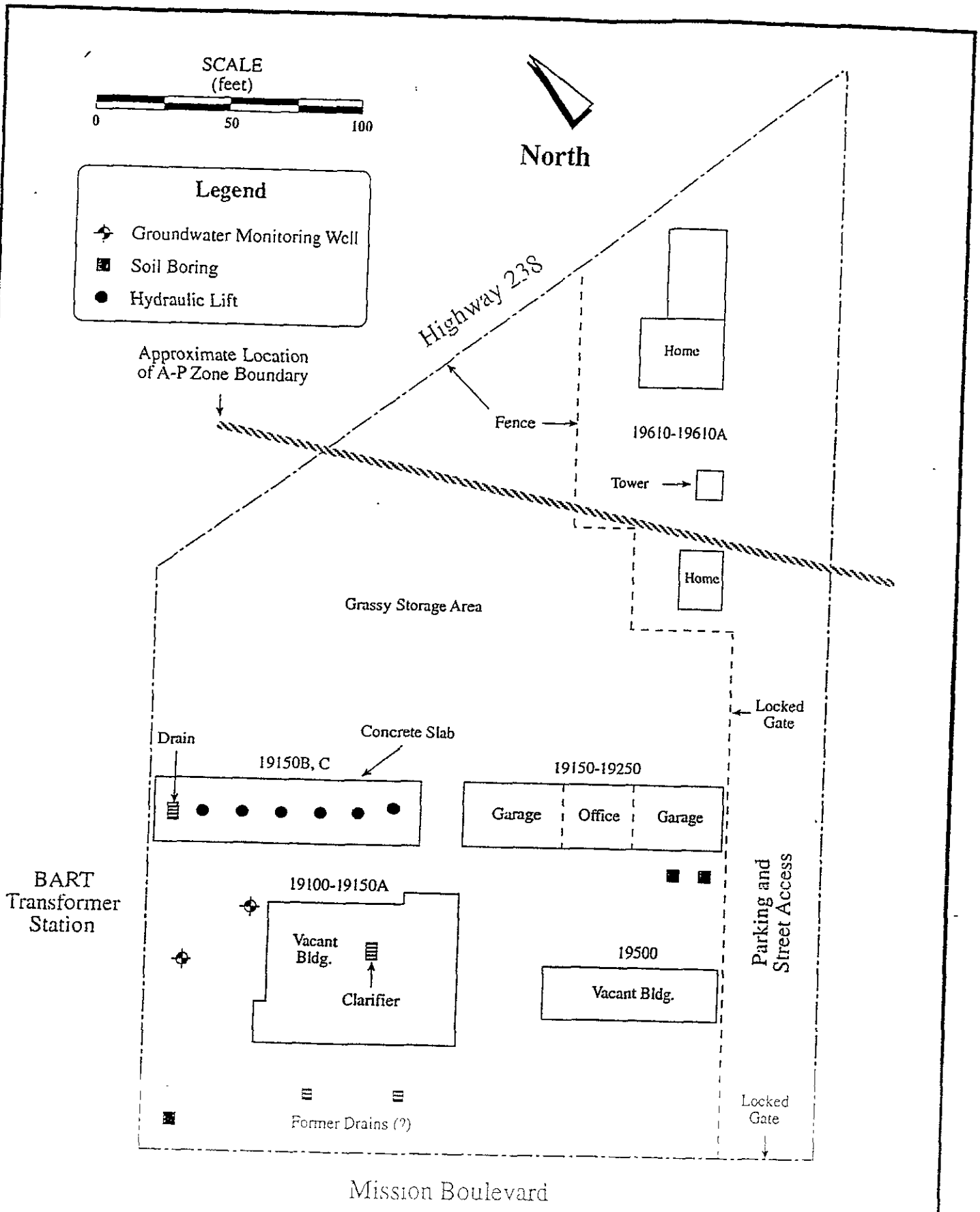
Notes: All results are reported in ug/l (micrograms per liter: parts per billion)

ND: Non Detect, See Laboratory Analytical Report for Detection/Reporting Limits
NA: Not Available
DIPE: Di-isopropyl Ether
ETBE: Ethyl tert-Butyl Ether
TAME: tert-Amyl Methyl Ether
BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes
MTBE: Methyl tert-butyl Ether
TBA: tert-Butanol
PAC: Polynuclear Aromatic Compounds

APPENDIX A

HISTORIC SITE MAP

(PINNACLE ENVIRONMENTAL)



PINNACLE ENVIRONMENTAL TECHNOLOGIES #2 Santa Maria, Foothill Ranch, CA 92610 Tel: (714) 470-3691 • Fax: (714) 595-0459	19100-19600 Mission Blvd. Alameda County, California	Site Map	Figure 2

APPENDIX B

SOIL BORING LOG NOTES

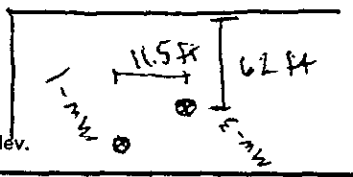
BLAES
Environmental Management, Inc.
1433 N. 3rd Avenue
Phoenix, AZ 85003

FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 001-00008-02
Client Uhal 707 00
Location 19100 Mission Blvd
Logged By MJG
Permit No. _____ Date: 4-23-03

Boring No.
Sheet 1 of 1

Field location of boring: BART



Drilling Co.: Cascade
Drill Rig Model: CME-75
Drilling Method: Hollow Stem Auger
Hole Diameter: 8
Drillers Name: JD

Soil Boring Completion: MW-3

Depth to ▽ Date 4-23-03 Time 1450 — 25
Depth to ▼ Date 4-23-03 Time 1500 — 30

Time	Blows/12 in.	PID (ppm)	Recovery (ft/ft)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log
				0'					
1420	—	0.01		5'	5				
1435	10/12/18	0.22		10'	10				
1470	8/13/19	0.2		15'	15				
1445	26/50/5"	0.1		20'	20				
1450	26/50/6"	0.2		25'	25				
1500	16,39,50/4"	0.2		30'	30				

DESCRIPTION

0'-7' Sand, Brown (f-m grained) dry, loose. Looks like fill material.

At 7 Feet driller hit ~~clay again~~

7-9' Clayey Silt, moist, loose.

8.5-10' Silty Clay, Dark Brown, dense, moist, ~~trace Silt~~, med-plasticity.

13.5-15' Silty Clay, Dark Brown, dense, moist, low plasticity.

18.5-20' Clay, Dark Brown, trace Silt, Slightly moist, very dense, hi med plasticity.

23.5-25' Clay, Brown, trace Silt, high plasticity, moist, very dense.

28.5-30' Clay, Brown, trace Silt, high plasticity, moist-wet, very dense

Prepared By: _____ Date: _____ Reviewed By: _____ Date: _____

bim c /blaes/admin/blgs BLK blank

4/22/2003

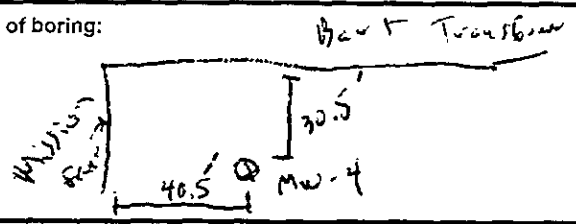
BLAES
Environmental Management, Inc.
1433 N. 3rd Avenue
Phoenix, AZ 85003

FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 001-00008-02
Client U Haul 707 00
Location 19100 Mission Blvd
Logged By MPG
Permit No. _____ Date: 4/24/03

Boring No.
Sheet 1 of 1

Field location of boring:



Ground Elev.

Drilling Co.: Gregg
Drill Rig Model:
Drilling Method:
Hole Diameter:
Drillers Name:

Soil Boring Completion: MW-4

Depth to Water: Date 4/24/03 Time 0855 — 23
Depth to Water: Date 4/24/03 Time 0940 — 30

Time	Blows/12 in.	PID (ppm)	Recovery (ft/ft)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log
0815	—	0.1			5				
825	8/11/20	0.1		8-10'					
					10				
830	5/7/12	6.2		15'					
					15				
0845	14/11/22	0.1		20'					
					20				
0850	22/50/6	0.1		20'-21.5'					
0855	23,34,50/3	0.0		21.5-23'					
0910	17,33,50/6	0.1		23'-24.5'					
0920	26,35,50/6	0.2		25-26.5'	25				
0930	19,27,45	0.1		26.5-28'					
0940	19,35,49	0.1		28.5-30'					
					30				

DESCRIPTION

0-6' Hand augered
0-3' - Clay, Dark Brown, moist mod. plasticity.
3-6' - Clayey silt, moist, dense.
8.5-10' - Clay, Brown, mod. plasticity, dense, moist, No odor.
13.5-15' - Silty Clay, Brown, dense, moist, low-mod plasticity.
18.5-20' - Clay, Dark Brown trace silt slightly moist, very dense, high plast.
20-21.5' - Clay, Dark Brown, moist, very dense, high plasticity.
21.5-23' - Same ↗
23-24.5' - Clay, Brown, ~~trace Silt~~, moist, very dense, high plasticity
25-26.5' - Clay, Brown, trace Silt, very dense, mod. plasticity.
26.5-28' - Silty Clay, Brown, trace fine Sand, low-mod plasticity dense.
28.5-30' - Clay, Light Brown, trace Silt, moist, dense mod plasticity.

Preparred By _____ Date: _____ Reviewed By: _____ Date. _____

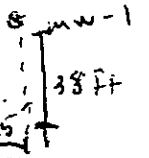
BLAES
Environmental Management, Inc.
1433 N. 3rd Avenue
Phoenix, AZ 85003

FIELD LOG OF EXPLORATORY SOIL BORING

Project No.
Client
Location
Logged By
Permit No. _____ Date: 4-24-03

Boring No.
Sheet ___ of ___

Field location of boring: Burt Trea



Ground Elev.

Drilling Co.:
Drill Rig Model:
Drilling Method:
Hole Diameter:
Drillers Name:

Soil Boring Completion: MW-5

Depth to ▽ Date Time | Depth to ▼ Date Time

Time	Blows/12 in.	PID (ppm)	Recovery (ft/ft)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log
1230	6-9-14	0.1		8.5-10'	5				
1235	9-11-16	0.0		13.5-15'	10				
1240	14/50/6	0.2		20-21.5'	15				
1245	21/44/50/3	0.1		21.5-23'	20				
1255	17,49,50/5	0.1		23-24.5'					
105	33,50/5	0.2		25-26.5'	25				
110	17-23-37	0.2		26.5-28'					
115	25,31,39	0.2		28-30'	30				

DESCRIPTION

0-3' = Series of asphalt-dirt layers (3).

3-6' - Clayey Silt, loose, moist No odor.

8.5-10' - Silty Clay, Dark Brown dense, moist, low plasticity.

13.5-15' - Silty Clay, Dark Brown dense, moist, low plasticity.

20'-21.5' 20-21

21.0-21.5' - Clay, Dark Brown trace silt, moist, mod. plasticity

21.5-23.0 - Clay, Dark Brown, moist, high ~~mod.~~ plasticity, dense.

23.0-24.5 - Clay, Dark Brown, very dense, high plasticity, moist.

25.0-26.5 - Clay, Brown, trace Silt dense, mod-high plasticity, ~~moist~~ ~~wet~~ moist

26.5-28 Silty Clay, Brown, med plasticity, wet, dense.

28.5-30' - Silty Clay, Brown, med plasticity, wet, dense.

Prepared By _____ Date: _____ Reviewed By: _____ Date:

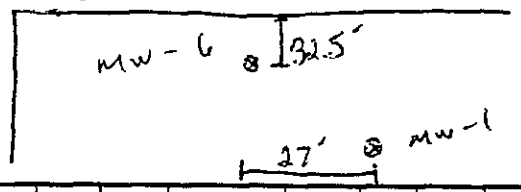
BLAES
Environmental Management, Inc.
1433 N. 3rd Avenue
Phoenix, AZ 85003

FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 001-00008-02
Client Uhaul 707-00
Location 1900 Mission Blvd
Logged By M. G.
Permit No. _____ Date: 4-23-03

Boring No.
Sheet 1 of 1

Field location of boring: BART



Ground Elev.

Drilling Co.: Cascade Drilling
Drill Rig Model: CME-75
Drilling Method: Hollow Stem Auger
Hole Diameter: 8"
Drillers Name: JD

Soil Boring Completion: MW-6

Depth to Water		Depth to Water	
Date		Date	
Time		Time	

Time	Blows/12 in.	PID (ppm)	Recovery (ft/ft)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log
1115		0.2		5'	3				
					6				
1130	8-17-21	0.3		10'	9				
					12				
1135	13-23-31	0.2		15'	15				
					18				
1140	16,50/6	0.3		20'	21				
					24				
1145	18,34,50/6	0.3		25'	27				
					30				
1152	15,27,41	0.2		30'	31				
					36				
1202	28,50/4	0.1		35'	39				
1210	18,50/6	0.2		40'	42				
1215	21,35,48	0.2		42'					

DESCRIPTION

0-3' Clay, Dark Brown, moist moderate plasticity. No odor

3'-6' Clayey Silt, moist, dense. Hand augured to 10 feet.

8.5'-10' - Clay, med plasticity, dense, moist. No odor

13.5'-15' - Silty Clay, Brown, dense, moist, med. plasticity.

18.5'-20' - Clay, Dark Brown, trace Silt, slightly moist, very dense.

23.5'-25.0' - Clay, Brown, trace Silt, slightly moist, very dense high-med. plasticity.

28.5'-30' - Clay, Light Brown, trace Silt, moist, very dense high plasticity.

33.5-35' - Sand, Brown, (f-m grained) trace Clay Saturated, loose. no plasticity.

38.5-40' - Gravelly Sand, saturated fine gravel, m-c Sand. loose

42' - Gravelly Sand, saturated fine gravel, m-c Sand, loose.

Prepared By _____ Date: _____ Reviewed By: _____ Date: _____

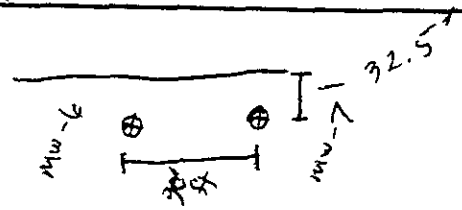
BLAES
Environmental Management, Inc.
1433 N. 3rd Avenue
Phoenix, AZ 85003

FIELD LOG OF EXPLORATORY SOIL BORING

Project No.
Client
Location
Logged By
Permit No. _____ Date: 4-24-03

Boring No.
Sheet ___ of ___

Field location of boring:



Ground Elev.

Drilling Co.:
Drill Rig Model:
Drilling Method:
Hole Diameter:
Drillers Name:

Soil Boring Completion:
MW-7

Depth to ▽ Date Time
Depth to ▼ Date Time

Time	Blows/12 in.	PID (ppm)	Recovery (ft/ft)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log
1440		0.1			5				
445	9-18-21	0.1		8.5-10'	10				
450	9-17-21	0.1		13.5-15'	15				
455	10-23-45	0.0		18.5-20'	20				
0	12-29-34	0.2		23.5-25'	25				
10	16-36-41	0.2		28.5-30'	30				

DESCRIPTION

0-6' Hand augered - Clayey Silt, moist, loose.

8.5-10' ~~Clayey Silt~~ Silty Clay, Dark Brown moist, dense, low plasticity No odor.

13.5-15' Silty Clay, Dark Brown, moist, dense, low plasticity.

18.5-20' Clay, Dark Brown, trace Silt, slightly moist, mod plasticity, very dense.

23.5-25' Clay, Dark Brown, moist, high plasticity, very dense.

28.5-30' Silty Clay, Light Brown, wet, low plasticity, dense.

Prepared By: _____ Date: _____ Reviewed By: _____ Date:

APPENDIX C

CERTIFICATE OF DISPOSAL FOR SOIL

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: U-Haul International
Address: 2701 N Central Avenue, Ste. 700
Phoenix, AZ 85004
Contact: Reid L. Riner
Phone: 602-263-6647

Facility Name: U-Haul #001
Address: 19100 Mission Blvd.
Hayward, CA
Facility Contact: Steven Woodhull, BLAES Environmental
Phone: 602-728-0707

IWM Job #: 93090-DE
Description of Waste: 11 Drum(s) of
Non-Hazardous
Soil
Removal Date: 17 September 2003
Ticket #: RSVRL170903

Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: Republic Services Vasco Road Landfill
Address: 4001 N. Vasco Road
Livermore, CA 94550
Phone: (925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

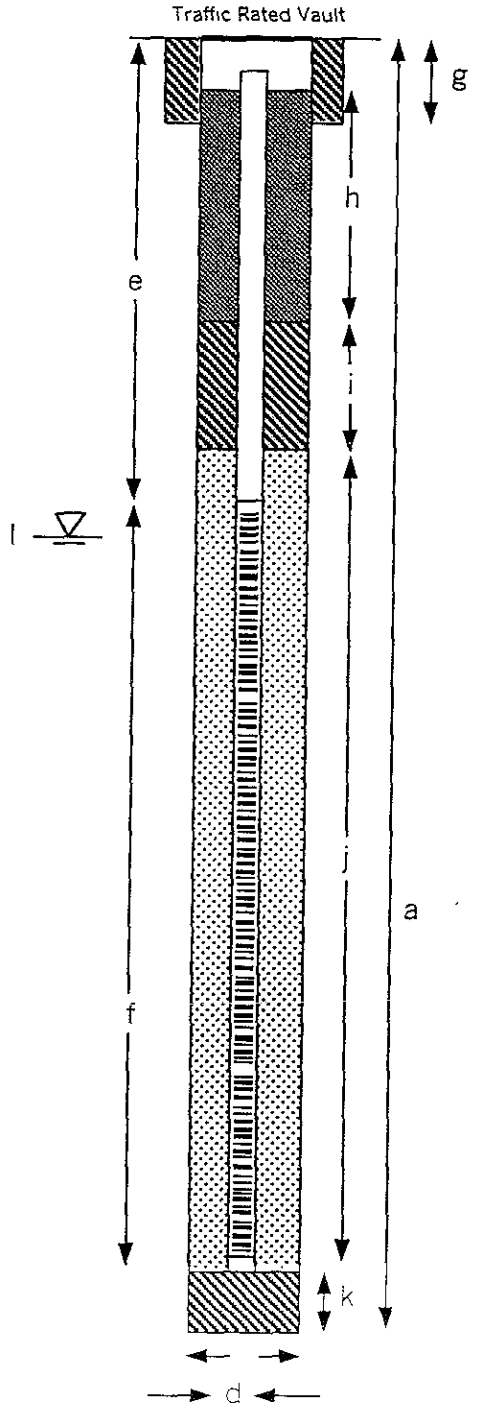
William T. DeLon
Authorized Representative (Print Name and Signature)

09/17/03
Date

APPENDIX D

WELL CONSTRUCTION DIAGRAMS

PROJECT NUMBER	001-0011-01	BORING / WELL NO.	MW-3
PROJECT NAME	Amerco Property	TOP OF CASING ELEV.	64.22
LOCATION	19100 to 19600 Mission Blvd.	GROUND SURFACE ELEV	64.54
	Hayward, California	DATUM	Mean Sea Level
WELL PERMIT NO.	Alameda Public Works	INSTALLATION DATE	4/23/03



EXPLORATORY BORING

a.	Total depth	30 ft.
b.	Diameter	8 in.
	Drilling method	Hollow Stem Auger

WELL CONSTRUCTION

c.	Total casing length	30 ft.
	Material	Schedule 40 PVC
d.	Casing Diameter	2 in.
e.	Depth to top of screen	10 ft.
f.	Screen Interval	20 ft. @ 10-30 ft.
	Perforation type	Machine Slot
	Perforation size	0.020 inch
g.	Surface Completion	1 ft.
	Seal material	concrete grout
h.	Surface Seal	5 ft.
	Seal material	bentonite grout
i.	Seal	2 ft.
	Seal material	bentonite
j.	Sand Pack interval	22 ft. @ 8 to 30 ft.
	Pack material	10-20 sand
k.	Bottom seal	0 ft.
	Seal material	None
l.	Depth to groundwater below ground surface	22.88 ft.

Prepared by S Woodhull Date Aug-03

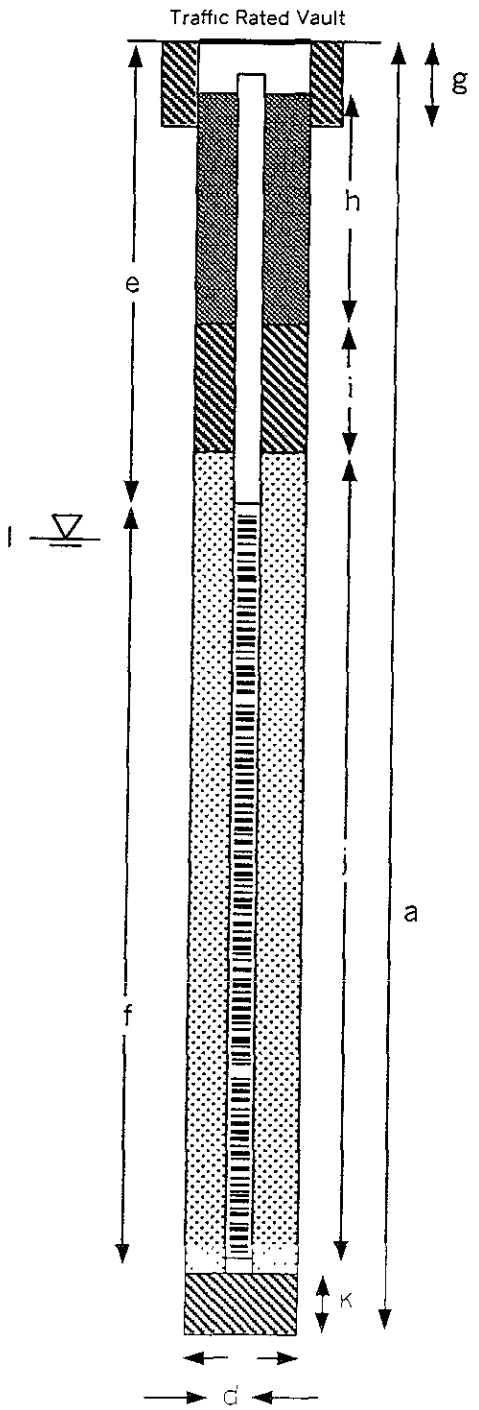
BLAES Environmental Management, Inc.

Well Construction Diagram | Appendix D

Amerco Property
19100 to 19600 Mission Blvd
Hayward, California

Project No 001-0011-01 | File C:\blaes\technical\Haun

PROJECT NUMBER	001-0011-01	BORING / WELL NO.	**MW-4**
PROJECT NAME	Amerco Property	TOP OF CASING ELEV.	63.76
LOCATION	19100 to 19600 Mission Blvd.	GROUND SURFACE ELEV	63.97
	Hayward, California	DATUM	Mean Sea Level
WELL PERMIT NO.	Alameda Public Works	INSTALLATION DATE	4/24/03



EXPLORATORY BORING

a.	Total depth	30 ft.
b.	Diameter	8 in.
	Drilling method	Hollow Stem Auger

WELL CONSTRUCTION

c.	Total casing length	30 ft.
	Material	Schedule 40 PVC
d.	Casing Diameter	2 in.
e.	Depth to top of screen	10 ft.
f.	Screen Interval	20 ft. @ 10-30 ft.
	Perforation type	Machine Slot
	Perforation size	0.020 inch
g.	Surface Completion	1 ft.
	Seal material	concrete grout
h.	Surface Seal	5.5 ft.
	Seal material	bentonite grout
i.	Seal	1.5 ft.
	Seal material	bentonite
j.	Sand Pack interval	22 ft. @ 8 to 30 ft.
	Pack material	10-20 sand
k.	Bottom seal	0 ft.
	Seal material	None
l.	Depth to groundwater below ground surface	22.75 ft

Prepared by S. Woodhull Date Aug-03

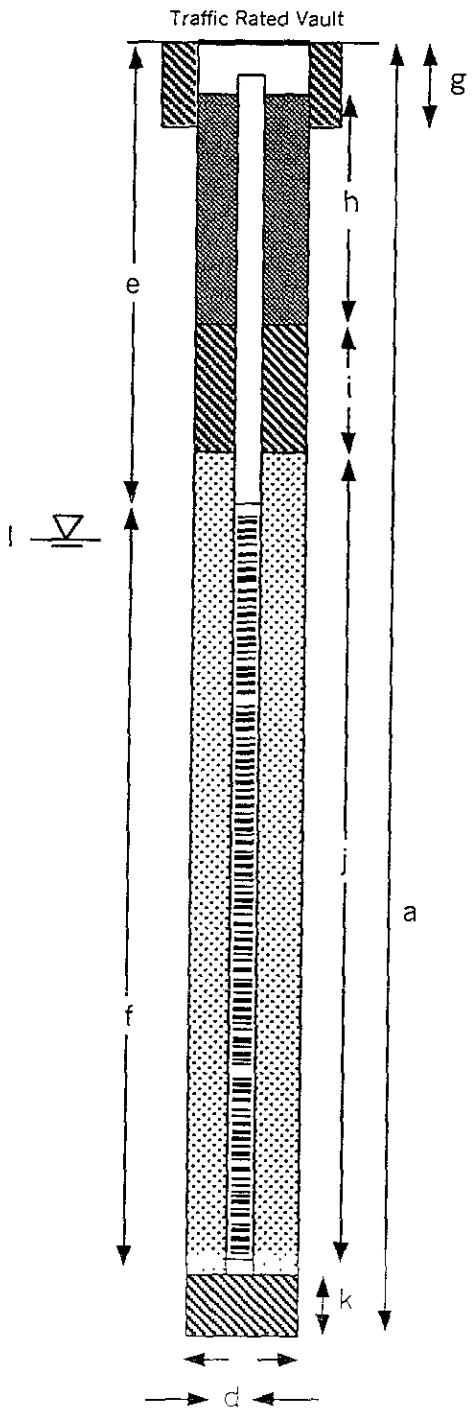
BLAES Environmental Management, Inc.

Well Construction Diagram — Appendix D

Amerco Property
19100 to 19600 Mission Blvd.
Hayward, California

Project No. 001-0011-01 | File C:\blaes\technical\U-Haul\

PROJECT NUMBER	001-0011-01	BORING / WELL NO.	MW-5
PROJECT NAME	Amerco Property	TOP OF CASING ELEV.	64.50
LOCATION	19100 to 19600 Mission Blvd.	GROUND SURFACE ELEV	64.81
	Hayward, California	DATUM	Mean Sea Level
WELL PERMIT NO.	Alameda Public Works	INSTALLATION DATE	4/24/03



EXPLORATORY BORING

a.	Total depth	30 ft.
b.	Diameter	8 in.
	Drilling method	Hollow Stem Auger

WELL CONSTRUCTION

c.	Total casing length	30 ft.
	Material	Schedule 40 PVC
d.	Casing Diameter	2 in.
e.	Depth to top of screen	10 ft.
f.	Screen Interval	20 ft. @ 10-30 ft.
	Perforation type	Machine Slot
	Perforation size	0.020 inch
g.	Surface Completion	1 ft.
	Seal material	concrete grout
h.	Surface Seal	5.5 ft.
	Seal material	bentonite grout
i.	Seal	1.5 ft.
	Seal material	bentonite
j.	Sand Pack interval	22 ft. @ 8 to 30 ft.
	Pack material	10-20 sand
k.	Bottom seal	0 ft.
	Seal material	None
l.	Depth to groundwater below ground surface	23 11 ft

Prepared by S Woodhull Date Aug-03

BLAES Environmental Management, Inc.

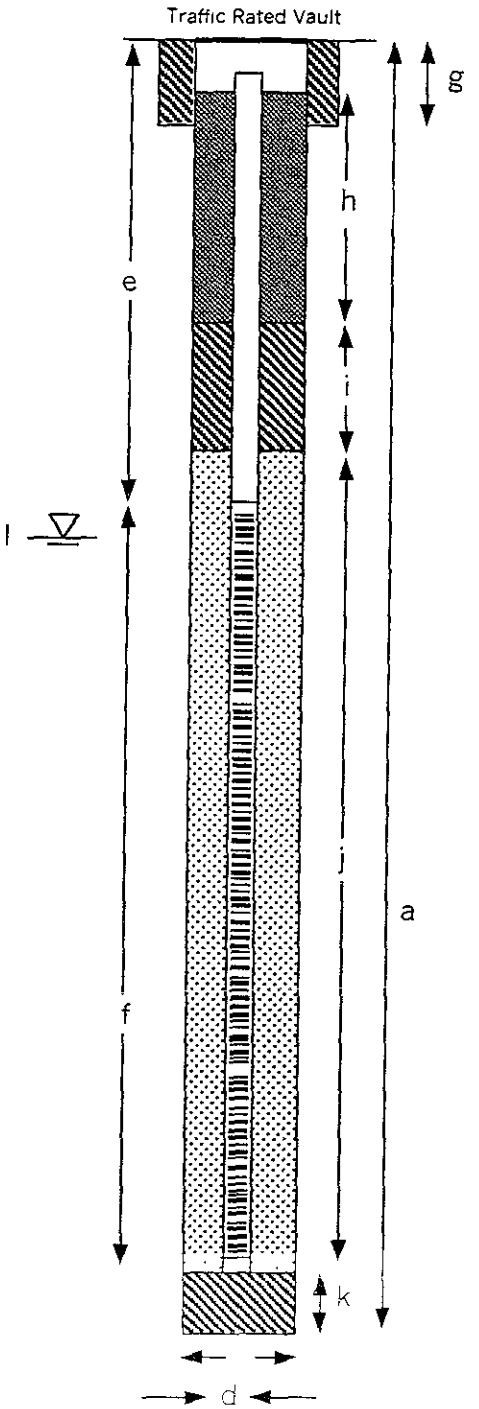
Well Construction Diagram

Amerco Property
19100 to 19600 Mission Blvd
Hayward, California

Appendix D

Project No 001-0011-01 File C:\blaes\technical\Amerco

PROJECT NUMBER	001-0011-01	BORING / WELL NO.	MW-6
PROJECT NAME	Amerco Property	TOP OF CASING ELEV.	64.50
LOCATION	19100 to 19600 Mission Blvd.	GROUND SURFACE ELEV	64.81
	Hayward, California	DATUM	Mean Sea Level
WELL PERMIT NO.	Alameda Public Works	INSTALLATION DATE	4/24/03



EXPLORATORY BORING

a.	Total depth	42 ft.
b.	Diameter	8 in.
	Drilling method	Hollow Stem Auger

WELL CONSTRUCTION

c.	Total casing length	40 ft.
	Material	Schedule 40 PVC
d.	Casing Diameter	2 in.
e.	Depth to top of screen	31 ft.
f.	Screen Interval	9 ft. @ 31-40 ft.
	Perforation type	Machine Slot
	Perforation size	0.020 inch
g.	Surface Completion	1 ft.
	Seal material	concrete grout
h.	Surface Seal	26 ft.
	Seal material	bentonite grout
i.	Seal	2 ft.
	Seal material	bentonite
j.	Sand Pack interval	11 ft. @ 29 to 40 ft.
	Pack material	10-20 sand
k.	Bottom seal	0 ft.
	Seal material	None
l.	Depth to groundwater below ground surface	22.35 ft

Prepared by S Woodhull Date Aug-03

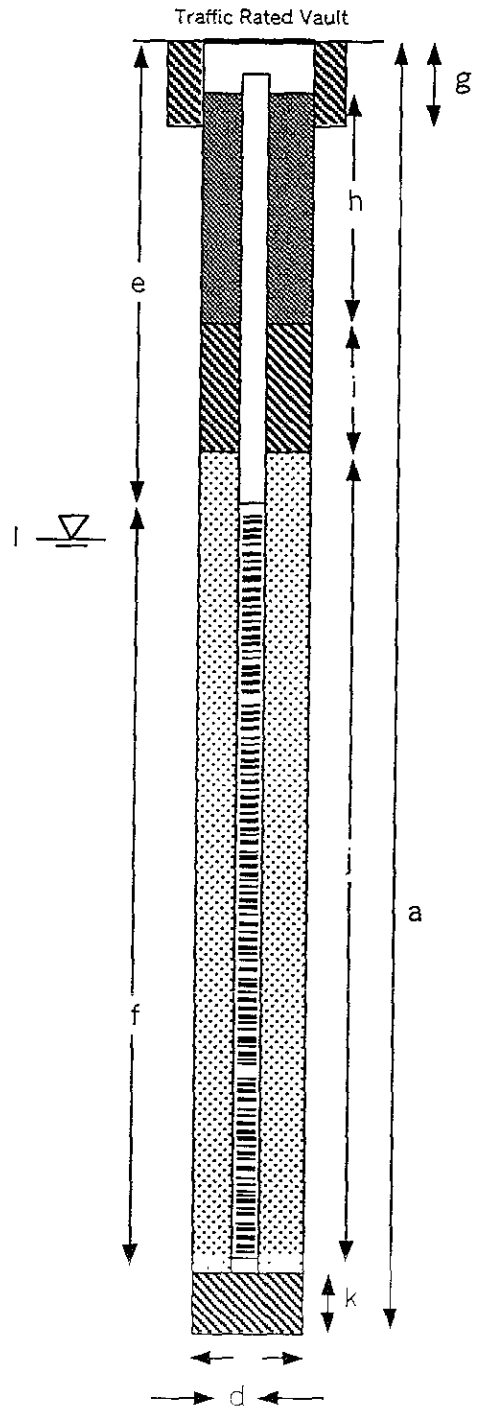
BLAES Environmental Management, Inc.

Well Construction Diagram — Appendix D

Amerco Property
19100 to 19600 Mission Blvd
Hayward, California

Project No 001-0011-01 | File C:\baes technical\U-Haul\

PROJECT NUMBER	001-0011-01	BORING / WELL NO.	MW-7
PROJECT NAME	Amerco Property	TOP OF CASING ELEV.	63.72
LOCATION	19100 to 19600 Mission Blvd.	GROUND SURFACE ELEV	64.11
	Hayward, California	DATUM	Mean Sea Level
WELL PERMIT NO.	Alameda Public Works	INSTALLATION DATE	4/24/03



EXPLORATORY BORING

a.	Total depth	30 ft.
b.	Diameter	8 in.
	Drilling method	Hollow Stem Auger

WELL CONSTRUCTION

c.	Total casing length	30 ft.
	Material	Schedule 40 PVC
d.	Casing Diameter	2 in.
e.	Depth to top of screen	10 ft.
f.	Screen Interval	20 ft. @ 10-30 ft.
	Perforation type	Machine Slot
	Perforation size	0.020 inch
g.	Surface Completion	1 ft.
	Seal material	concrete grout
h.	Surface Seal	5 ft.
	Seal material	bentonite grout
i.	Seal	2 ft.
	Seal material	bentonite
j.	Sand Pack interval	22 ft. @ 8 to 30 ft.
	Pack material	10-20 sand
k.	Bottom seal	0 ft.
	Seal material	None
l.	Depth to groundwater below ground surface	22.38 ft

Prepared by S Woodhull Date Aug-03

BLAES Environmental Management, Inc.

Well Construction Diagram

Appendix D

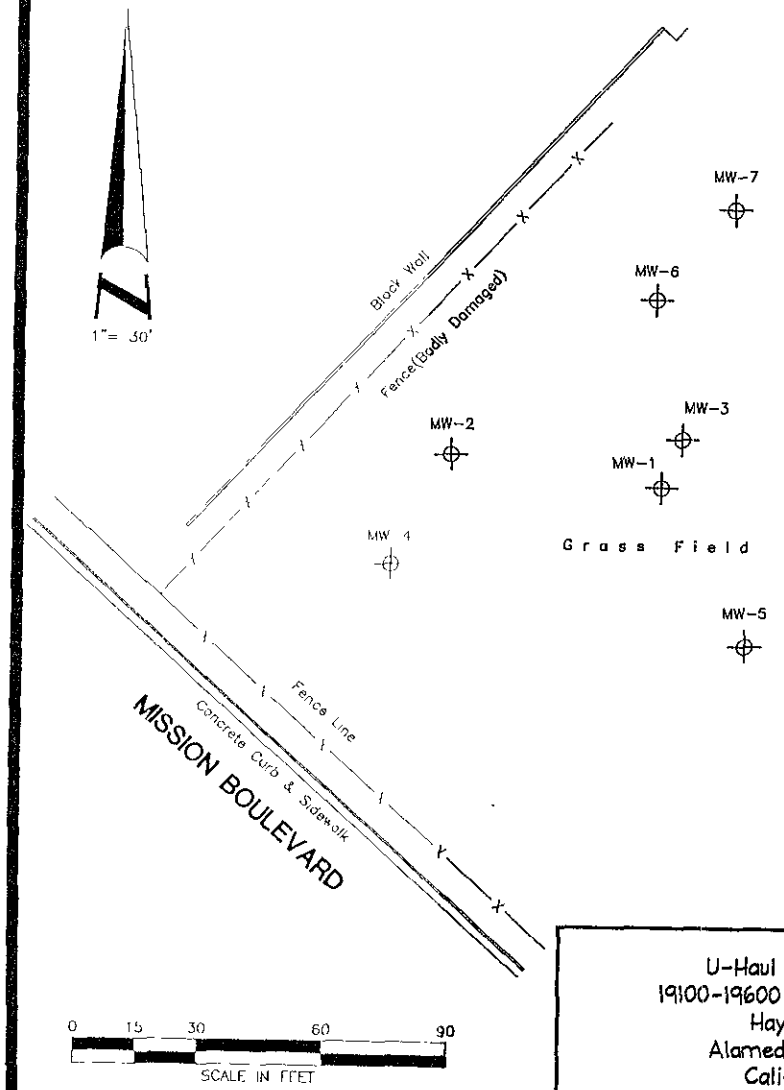
Amerco Property
19100 to 19600 Mission Blvd
Hayward, California

Project No 001-0011-01 File C:\Geotechnical\Haun

APPENDIX E

MONITOR WELL SURVEY REPORT

Monitoring Well Exhibit
Prepared for:
Blaes Environmental



DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV (PVC)	ELEV (BOX)
MW-1	2077093.0	6097636.1	37.6883799	-122.1037315	64.21	64.54
MW-2	2077100.7	6097585.7	37.6883986	-122.1039061	63.72	64.21
MW-3	2077104.9	6097641.1	37.6884127	-122.1037149	64.22	64.54
MW-4	2077073.7	6097571.6	37.6883239	-122.1039535	63.76	63.97
MW-5	2077054.7	6097656.4	37.6882756	-122.1036593	64.50	64.81
MW-6	2077139.0	6097634.4	37.6885062	-122.1037401	63.89	64.25
MW-7	2077161.1	6097653.1	37.6885678	-122.1036770	63.72	64.11

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.

COORDINATE DATUM IS NAD 83(1986).

DATUM ELLIPSOID IS GRS80.

REFERENCE GEOID IS NGS96.

CORS STATIONS USED WERE TIBB AND DIAB.

VERTICAL DATUM IS ASSUMED NAVD 88 FROM GPS OBSERVATIONS.

U-Haul Property
19100-19600 Mission Blvd.
Hayward
Alameda County
California

Morrow Surveying
LAND SURVEYORS
1450 Harbor Blvd. Ste. D
West Sacramento
California 95691
(916) 372-8124
tom@morrowsurveying.com

Date: 6-19-03
Scale: 1" = 30'
Sheet 1 of 1
Revised:
Field Book: MW-12
Dwg. No. 0504-001 AZ

APPENDIX F

GROUNDWATER MONITORING AND SAMPLING PROCEDURES

GROUNDWATER MONITORING AND SAMPLING PROCEDURES

Groundwater Depth Measurements

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

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

Groundwater Dissolved Oxygen Measurements

Groundwater dissolved oxygen measurements are obtained at each groundwater monitoring well using a YSI-85 dissolved oxygen probe. The probe is decontaminated before and after taking a measurement at a well. Measurements are taken by lowering the probe approximately two to four feet into groundwater. The probe is then slowly raised and lowered through the water within an approximate one-foot interval. The measurement is taken when the reading stabilizes and shows signs of reversal. Several minutes may pass before the measurement stabilizes. The measurement is recorded on the field data sheet along with the depth to groundwater measurements.

Groundwater Monitoring Well Purging Procedures

Each groundwater monitoring well is purged using a new disposable Teflon bailer or a Whale In-Line 925, 12-volt D.C. pump. Groundwater purged from each monitor well is temporarily stored in a 55-gallon steel drum pending waste characterization, removal and disposal.

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

APPENDIX G

GROUNDWATER MONITORING AND SAMPLING FIELD SHEETS

Well ID	Time	Depth to Product (ft btoc)	Depth to GW (ft btoc)	DO (%)	DO (mg/L)	Cond.	Cond.	Salinity (mS/L)	Temp (deg. C)	Well Diam (inches)	Total Depth (feet)	Calc. Purge Vol. (gal)	Act. Purge Vol. (gal)	Notes
MW-1	1425	--	22.62	24.6	2.26	983	1101	0.5	19.3	2"	43	10.0	10.5	
MW-2	1510	--	22 55	14.6	1.26	833	977	0.5	19.7	6"	46	103		
MW-3	1410	--	22.65	27.5	2.53	1253	1408	0.7	19.0	2"	30	3.6	5	
MW-4	1230	--	22.22	49.4	4.58	747	834	0.4	19.5	2"	30	3.8	5	
MW-5	1300	--	22.92	51.6	5.04	1598	1788	0.9	19.4	2"	30	3.5	5	
MW-6	1340	--	22 30	40.0	3.71	0.9 mS	1.0 mS	0.5	18.3	2"	40	8.7	10	
MW-7	1320	--	22.14	45.1	4.18	755	867	0.4	18.5	2"	30	3.5	5	
						~~895~~	~~877~~	~~0~~						

Project No	001-00008-02
Task No.	1454
Client	U Haul
Site.	19100 Mission Blvd
Address	Hayward, CA
City, State	
Date	6-3-03

Notes:

BLAES Environmental Management, Inc.
1433 North Third Avenue
Phoenix, Arizona 85003
602-728-0707

GROUNDWATER SAMPLING FORM

Site ID: U Haul Hayward
Project No.: 001-00008-02
Recorded By: MPG

Well No.: MW-1
Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other:
Well Material: ☒ PVC ☐ St. Steel ☐ Other:

WELL PURGING

Purge Volume — **Purge Date:** 6-3-03

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other:

Total Depth of Casing (TD in feet: 43
Water Level Depth (WL in feet BTOC): 22.62
Number of Well Volumes (# Vols) to be
☒ 3 ☐ 4 ☐ 5 ☐ Other:

Purge Volume Calulation:

$$\left(\frac{43}{\text{TD (feet)}} - \frac{22.62}{\text{WL}}\right) \times \frac{2^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0409 = \underline{10.0}\ \text{gallons}$$

Calculated Purge Volume

Purge Method
☐ Bailer - Type:
☐ Submersible ☒ Submersible Whale
☐ Other:

Pump Intake Setting
☒ Near Bottom ☐ Near Top ☐ Other: Middle
Depth in feet (BTOC): 34
Screen Interval in Feet (BTOC): to

Pump Time
Start 1430 Stop: 1440 Time 10 min

Purge Rate
Initial ~1 gpm
Final ~1 gpm

Actual Purge Volume
~10.5 gallons

Field Parameter Measurements

Time	Time Lapsed	Gallons Purged	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp	DO %	Notes DO mg/L
1432	2 min	2	1053	1169	0.6	19.8	24.3	2.21
1434	4 min	4	1040	1177	0.6	18.9	25.6	2.37
1436	6 min	6	1034	1170	0.6	19.0	25.4	2.34
1438	8 min	8	1030	1168	0.6	18.9	25.4	2.35
1440	10 min	10.5	1030	1167	0.6	18.9	25.4	2.35

Observations During Purging (well Condition, Turbidity, Color, Odor, very clear, no odor.

Purge Water Storage/Disposal: ☒ Drum(s), Number: ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments:

WELL SAMPLING

Sampled By: MPG **Sampling Date:** 6-4-03 **Sampling Time:** 0930

Sampling Method
☒ Bailer Type: Hand
☐ Submersible ☐ Whale
☐ Other

Water Level Before Sampling (in feet BTOC): —
☐ Same as Above
☒ Grab Type
☐ Other - Type

Sampling Distribution Sample Series

Sample No	Containers, Vol., =	Analysis	Preservative	Lab	Comments
MW-1	3 VOAs	8015, 8260	HCl	Segnia	
MW-1	2-liters	8310	—	"	

Other Notes

BLAES Environmental Management, Inc.
1433 North Third Avenue
Phoenix, Arizona 85003
602-728-0707

GROUNDWATER SAMPLING FORM

Well No.: MW-2

Site ID: U Haul Hayward

Project No.: 001-00005-02

Recorded By: MPG

Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other:

Well Material: ☒ PVC ☐ St. Steel ☐ Other:

WELL PURGING

Purge Volume — **Purge Date:** 6-3-03 — **Purge Method**

Casing Diameter (D) in inches:
☐ 2-inch ☐ 4-inch ☒ 6-inch ☐ Other:

Total Depth of Casing (TD in feet: 46

Water Level Depth (WL in feet BTOC): 22.55

Number of Well Volumes (# Vols) to be
☒ 3 ☐ 4 ☐ 5 ☐ Other:

Purge Volume Calulation:

$$\left(\frac{46}{\text{TD (feet)}} - \frac{22.55}{\text{WL}}\right) \times \frac{6^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0409 = 104 \text{ gallons}$$

Calculated Purge Volume

☐ Bailer - Type:
☐ Submersible ☒ Submersible Whale
☐ Other:

Pump Intake Setting
☐ Near Bottom ☐ Near Top ☒ Other: Middle
Depth in feet (BTOC): 34
Screen Interval in Feet (BTOC): _____ to _____

Pump Time
Start: 1516 Stop: 1650 Time: 94

Purge Rate
Initial: ~1 gpm
Final: ~1 gpm

Actual Purge Volume
105 gallons

Field Parameter Measurements

Time	Time Lapsed	Gallons Purged	Cond. 1 (umhos/cm)	Cond 2 (umhos/cm)	Salinity	Temp	DO %	Notes DO mg/L
1614	58 min	50	927	1032	0.5	20.0	17.5	1.58
1619	63 min	60	910	1025	0.5	19.2	16.7	1.52
1625	69 min	70	907	1021	0.5	19.4	17.4	1.58
1633	77 min	80	910	1028	0.5	19.0	17.2	1.58
1640	84 min	90	911	1027	0.5	19.2	17.0	1.56
1645	89 min	100	906	1025	0.5	18.9	18.2	1.66
1650	94 min	105	907	1023	0.5	19.1	16.9	1.56

Observations During Purging (well Condition, Turbidity, Color, Odor, Very clear, no odor

Purge Water Storage/Disposal: ☒ Drum(s), Number: _____ ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments:

WELL SAMPLING

Sampled By: MPG **Sampling Date:** 6-4-03 **Sampling Time:** 0950

Sampling Method

Water Level Before Sampling (in feet BTOC): —

☒ Bailer Type: Hand ☐ Same as Above
☐ Submersible ☐ Whale ☒ Grab Type
☐ Other ☐ Other Type:

Sampling Distribution Sample Series:

Sample No	Containers, Vol =	Analysis	Preservative	Lab	Comments
MW-2	3 VOA	8015, 8260	HCl	Sequoia	

Other Notes

BLAES Environmental Management, Inc.
1433 North Third Avenue
Phoenix, Arizona 85003
602-728-0707

GROUNDWATER SAMPLING FORM

Well No.: MW-3

Well Type: ☒ Monitor ☐ Remedial - VE AS
☐ Other:

Well Material: ☒ PVC ☐ St. Steel
☐ Other:

Site ID: U Haul Hayward

Project No.: 001-00008-02

Recorded By: MPG

WELL PURGING

Purge Volume — **Purge Date:** 6-3-03 — **Purge Method**

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other:

Total Depth of Casing (TD in feet): 30

Water Level Depth (WL in feet BTOC): 22.65

Number of Well Volumes (# Vols) to be
☒ 3 ☐ 4 ☐ 5 ☐ Other:

Purge Volume Calulation:

$$\left(\frac{30}{\text{TD (feet)}} - \frac{22.65}{\text{WL}}\right) \times \frac{2^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0409 = 3.61 \text{ gallons}$$

Calculated Purge Volume

Purge Method
☐ Bailer - Type:
☐ Submersible ☒ Submersible Whale
☐ Other:

Pump Intake Setting
☒ Near Bottom ☐ Near Top ☐ Other:
Depth in feet (BTOC): 28
Screen Interval in Feet (BTOC): ____ to ____

Pump Time
Start 1411 Stop: 1417 Time 6 min

Purge Rate
Initial ~1.2 gpm
Final ~1.2 gpm

Actual Purge Volume
5 gallons

Field Parameter Measurements

Time	Time Lapsed	Gallons Purged	Cond 1 (umhos/cm)	Cond 2 (umhos/cm)	Salinity	Temp.	DO %	Notes DO mg/L
1413	2 min	1.5	1268	1431	0.7	19.2	26.6	2.44
1414	3 min	3.0	1179	1335	0.7	18.9	28.5	2.63
1415	4 min	4.0	1131	1284	0.6	18.9	28.6	2.64
1417	6 min	5.0	1118	1266	0.6	18.9	29.1	2.67

Observations During Purging (well Condition, Turbidity, Color, Odor, Very clear, no odor.

Purge Water Storage/Disposal: ☒ Drum(s), Number: ____ ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments:

WELL SAMPLING

Sampled By: MPG **Sampling Date:** 6-4-03 **Sampling Time:** 0915

Sampling Method
☒ Bailer - Type Hand
☐ Submersible ☐ Whale
☐ Other:

Water Level Before Sampling (in feet BTOC): —
☐ Same as Above
☒ Grab Type
☐ Other - Type:

Sampling Distribution Sample Series

Sample No	Containers, Vol. #	Analysis	Preservative	Lab	Comments
MW-3	3 Vial	8015 8260	HCl	Sequoia	
MW-3	2 Liter	8310	-	"	

Other Notes

BLAES Environmental Management, Inc.
1433 North Third Avenue
Phoenix, Arizona 85003
602-728-0707

GROUNDWATER SAMPLING FORM

Well No.: MW-4

Site ID: U Haul Hayden

Project No.: 801-20008-02

Recorded By: MPG

Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other:

Well Material: ☒ PVC ☐ St. Steel ☐ Other:

WELL PURGING

Purge Volume

Purge Date: 6-3-03

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other:

Total Depth of Casing (TD in feet: 30

Water Level Depth (WL in feet BTOC): 22.22

Number of Well Volumes (# Vols) to be
☒ 3 ☐ 4 ☐ 5 ☐ Other:

Purge Volume Calulation:

$$\left(\frac{30}{\text{TD (feet)}} - \frac{22.22}{\text{WL}}\right) \times \frac{2^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0409 = 3.8 \text{ gallons}$$

Calculated Purge Volume

Purge Method

☐ Bailer - Type:
☐ Submersible ☒ Submersible Whale
☐ Other:

Pump Intake Setting

☒ Near Bottom ☐ Near Top ☐ Other:
Depth in feet (BTOC): 28
Screen Interval in Feet (BTOC): to

Pump Time

Start 1241 Stop: 1247 Time 6 min

Purge Rate

Initial ~1 gpm
Final ~1 gpm

Actual Purge Volume

~5 gallons

Field Parameter Measurements

Time	Time Lapsed	Gallons Purged	Cond. 1 (umhos/cm)	Cond 2 (umhos/cm)	Salinity	Temp.	DO %	DO mg/L
1243	2 min	1.5	771	844	0.4	20.5	55.8	4.96
1244	3 min	3.0	640	710	0.3	19.9	48.7	4.41
1246	5 min	4.0	580	647	0.3	19.6	49.0	4.42
1247	6 min	5.0	555	618	0.3	19.7	40.7	3.71

Observations During Purging (well Condition, Turbidity, Color, Odor, slightly turbid, no odor. Cleared up during purging

Purge Water Storage/Disposal: ☒ Drum(s), Number: ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments:

WELL SAMPLING

Sampled By: MPG

Sampling Date: 6-4-03

Sampling Time: 0820

Sampling Method

Water Level Before Sampling (in feet BTOC): —

☒ Bailer Type: Hand
☐ Submersible ☐ Whale
☐ Other

☐ Same as Above
☒ Grab - Type
☐ Other - Type

Sampling Distribution

Sample Series:

Sample No	Containers, Vol., #	Analysis	Preservative	Lab	Comments
MW-4	3 VOAs	8015, 8260	HCl	Sequoia	

Other Notes

BLAES Environmental Management, Inc.
1433 North Third Avenue
Phoenix, Arizona 85003
602-728-0707

GROUNDWATER SAMPLING FORM

Well No.: MW-5

Site ID: U Haul Hayward

Project No.: 001-20008-02a

Recorded By: MPG

Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other:

Well Material: ☒ PVC ☐ St. Steel ☐ Other:

WELL PURGING

Purge Volume

Purge Date: 6-3-03

Purge Method

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other:

Total Depth of Casing (TD in feet: 30

Water Level Depth (WL in feet BTOC): 22.92

Number of Well Volumes (# Vols) to be
☒ 3 ☐ 4 ☐ 5 ☐ Other:

☐ Bailer - Type:
☐ Submersible ☒ Submersible Whale
☐ Other:

Pump Intake Setting

☒ Near Bottom ☐ Near Top ☐ Other:

Depth in feet (BTOC): 28

Screen Interval in Feet (BTOC): to

Purge Volume Calulation:

$$\left(\frac{30}{\text{TD (feet)}} - \frac{22.92}{\text{WL}}\right) \times \frac{2^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0409 = \underset{\text{Calculated Purge Volume}}{3.5} \text{ gallons}$$

Pump Time

Start 1304 Stop: 1310 Time 6 min

Purge Rate

Initial ~1 gpm

Final ~1 gpm

Actual Purge Volume

~5 gallons

Field Parameter Measurements

Time	Time Lapsed	Gallons Purged	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp	DO %	Notes DO mg/L
1306	2 min	1.5	1664	1835	0.9	20.1	54.8	4.99
1308	4 min	3.0	1532	1712	0.9	19.4	56.4	5.13
1309	5 min	4.0	1470	1649	0.8	19.3	50.0	4.56
1310	6 min	5.0	1444	1617	0.8	19.4	43.1	3.89

Observations During Purging (well Condition, Turbidity, Color, Odor, Slightly turbid, cleared up No odor.

Purge Water Storage/Disposal: ☒ Drum(s), Number: ☐ Storm Sewer ☐ Sanitary Sewer

Other / Comments:

WELL SAMPLING

Sampled By: MPG **Sampling Date:** 6-4-03 **Sampling Time:** 0835

Sampling Method

Water Level Before Sampling (in feet BTOC) —

☒ Bailer Type: Hand ☐ Same as Above
☐ Submersible ☐ Whale ☒ Grab - Type
☐ Other: ☐ Other - Type

Sampling Distribution Sample Series

Sample No	Containers, Vol =	Analysis	Preservative	Lab	Comments
MW-5	3 VOAs	8015, 8260	HCl	Sequoia	

Other Notes

BLAES Environmental Management, Inc.
1433 North Third Avenue
Phoenix, Arizona 85003
602-728-0707

GROUNDWATER SAMPLING FORM

Well No.: MW-6

Site ID: U Hunt Hayward

Project No.: 001-60008-02

Recorded By: MPG

Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other:

Well Material: ☒ PVC ☐ St. Steel ☐ Other:

WELL PURGING

Purge Volume — **Purge Date:** 6-3-03

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other:

Total Depth of Casing (TD in feet): 40

Water Level Depth (WL in feet BTOC): 22.30

Number of Well Volumes (# Vols) to be
☒ 3 ☐ 4 ☐ 5 ☐ Other:

Purge Method
☐ Bailer - Type:
☐ Submersible ☒ Submersible Whale
☐ Other:

Pump Intake Setting
☒ Near Bottom ☐ Near Top ☐ Other:
Depth in feet (BTOC): 35
Screen Interval in Feet (BTOC): to

Purge Volume Calulation:

$$\left(\frac{40}{\text{TD (feet)}} - \frac{22.30}{\text{WL}}\right) \times \frac{2^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0409 = 8.7 \text{ gallons}$$

Calculated Purge Volume

Pump Time — Start 1346 Stop: 1359 Time 13 min

Purge Rate — Initial 6.1 gpm; Final 6.1 gpm

Actual Purge Volume — ~10 gallons

Field Parameter Measurements

Time	Time Lapsed	Gallons Purged	Cond. 1 (umhos/cm)	Cond 2 (umhos/cm)	Salinity	Temp.	DO %	Notes DO mg/L
1348	2min	2	930	1049	0.5	19.3	29.3	2.69
1350	4 min	4	912	1033	0.5	18.9	30.2	2.79
1352	6 min	6	918	1038	0.5	19.5	29.6	2.70
1355	9 min	8	912	1028	0.5	19.3	29.4	2.70
1359	13 min	10	913	1037	0.5	19.2	29.0	2.68

Observations During Purging (well Condition, Turbidity, Color, Odor, no odor, slightly turbid.

Purge Water Storage/Disposal: ☒ Drum(s), Number: ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments:

WELL SAMPLING

Sampled By: MPG **Sampling Date:** 6-4-03 **Sampling Time:** 0855

Sampling Method

Water Level Before Sampling (in feet BTOC): —

☒ Bailer - Type: Hand
☐ Submersible ☐ Whale
☐ Other

☐ Same as Above
☒ Grab - Type
☐ Other - Type

Sampling Distribution — Sample Series

Sample No	Containers, Vol., #	Analysis	Preservative	Lab	Comments
MW-6	3 voa	8015, 8260	HCl	Sequoia	

Other Notes:

BLAES Environmental Management, Inc.
1433 North Third Avenue
Phoenix, Arizona 85003
602-728-0707

GROUNDWATER SAMPLING FORM

Well No.: MW-7

Site ID: U Haul Hayward

Project No.: 001-00005-02

Recorded By: MPG

Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other:

Well Material: ☒ PVC ☐ St. Steel ☐ Other:

WELL PURGING

Purge Volume — **Purge Date:** 6-3-03

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other:

Total Depth of Casing (TD in feet): 30

Water Level Depth (WL in feet BTOC): 22.14

Number of Well Volumes (# Vols) to be
☒ 3 ☐ 4 ☐ 5 ☐ Other:

Purge Volume Calulation:

$$\left(\frac{30}{\text{TD (feet)}} - \frac{22.14}{\text{WL}}\right) \times \frac{2^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0409 = 3.9 \text{ gallons}$$

Calculated Purge Volume

Purge Method
☐ Bailer - Type:
☐ Submersible ☒ Submersible Whale
☐ Other:

Pump Intake Setting
☒ Near Bottom ☐ Near Top ☐ Other:
Depth in feet (BTOC): 28
Screen Interval in Feet (BTOC): ____ to ____

Pump Time
Start 1325 Stop: 1331 Time 6 min

Purge Rate
Initial ~1.2 gpm
Final ~1.2 gpm

Actual Purge Volume
~5 gallons

Field Parameter Measurements

Time	Time Lapsed	Gallons Purged	Cond 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp	DO %	Notes DO mg/L
1327	2 min	1.5	774	879	0.4	18.8	58.3	5.66
1328	3 min	3.0	756	864	0.4	18.5	44.5	4.12
1329	4 min	4.0	696	797	0.4	18.4	39.3	3.67
1331	6 min	5.0	653	744	0.4	18.5	39.1	3.65

Observations During Purging (well Condition, Turbidity, Color, Odor, slightly turbid, no odor, cleared up during purging.

Purge Water Storage/Disposal: ☒ Drum(s), Number: ____ ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments:

WELL SAMPLING

Sampled By: MPG **Sampling Date:** 6-4-03 **Sampling Time:** 0845

Sampling Method
☒ Bailer Type Hand
☐ Submersible ☐ Whale
☐ Other

Water Level Before Sampling (in feet BTOC) ____
☐ Same as Above
☒ Grab - Type
☐ Other Type:

Sampling Distribution Sample Series

Sample No	Containers Vol =	Analysis	Preservative	Lab	Comments
MW-7	3 voa	8015, 8260	HCl	Sequoia	

Other Notes

APPENDIX H

CERTIFICATE OF DISPOSAL FOR PURGED GROUNDWATER

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name:	U-Haul International	Facility Name:	U-Haul #001
Address:	2701 N Central Avenue, Ste. 700	Address:	19100 Mission Blvd.
	Phoenix, AZ 85004		Hayward, CA
Contact:	Reid L Riner	Facility Contact:	Steve Woodhull, BLAES Environmental
Phone:	602-263-6647	Phone:	602-728-0707

IWM Job #:	93328-DW
Description of Waste:	4 Drum(s) of
	Non-Hazardous
	Water
Removal Date:	17 September 2003
Ticket #:	SP170903-MISC

Transporter Information

Name:	IWM, Inc.
Address:	950 Ames Avenue
	Milpitas, CA 95035
Phone:	(408) 942-8955

Disposal Facility Information

Name:	Seaport Refining & Environmental
Address:	675 Seaport Blvd
	Redwood City, CA 94063
Phone:	650-364-6158

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T DeLon
Authorized Representative (Print Name and Signature)

09/17/03
Date

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name	U-Haul International	Facility Name:	U-Haul #001
Address:	2701 N Central Avenue, Ste. 700	Address:	19100 Mission Blvd.
	Phoenix, AZ 85004		Hayward, CA
Contact:	Reid L. Riner	Facility Contact	Steven Woodhull, BLAES Environmental
Phone:	602-263-6647	Phone	602-728-0707

IWM Job #:	93328-DW
Description of Waste:	2 Drum(s) of
	Non-Hazardous
	Mud/Water
Removal Date:	17 September 2003
Ticket #:	SP170903-MISC

Transporter Information

Name	IWM, Inc.
Address:	950 Ames Avenue
	Milpitas, CA 95035
Phone:	(408) 942-8955

Disposal Facility Information

Name:	Seaport Refining & Environmental
Address:	675 Seaport Blvd
	Redwood City, CA 94063
Phone:	650-364-6158

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon
Authorized Representative (Print Name and Signature)

09/17/03
Date

APPENDIX I

JUNE 2003 GROUNDWATER
LABORATORY ANALYTICAL REPORT

Sequoia
Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

11 July, 2003

Steve Woodhull
BLAES Environmental Management, Inc.
1433 N. Third Ave
Phoenix, ARIZONA 85003

RE: U-Haul
Sequoia Work Order: MMF0128

Enclosed are the results of analyses for samples received by the laboratory on 06/05/03 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
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FAX (408) 782-6308
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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MMF0128-01	Water	06/04/03 08:20	06/05/03 12:00
MW-5	MMF0128-02	Water	06/04/03 08:35	06/05/03 12:00
MW-7	MMF0128-03	Water	06/04/03 08:45	06/05/03 12:00
MW-6	MMF0128-04	Water	06/04/03 08:55	06/05/03 12:00
MW-3	MMF0128-05	Water	06/04/03 09:15	06/05/03 12:00
MW-1	MMF0128-06	Water	06/04/03 09:30	06/05/03 12:00
MW-2	MMF0128-07	Water	06/04/03 09:50	06/05/03 12:00

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1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MMF0128-01) Water Sampled: 06/04/03 08:20 Received: 06/05/03 12:00									
Ethanol	ND	100	ug/l	1	3F17033	06/17/03	06/18/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*		*78-129*	"	"	"	"	
MW-4 (MMF0128-01RE1) Water Sampled: 06/04/03 08:20 Received: 06/05/03 12:00									
Xylenes (total)	ND	0.50	ug/l	1	3F20022	06/20/03	06/20/03	EPA 8260B	HT-04
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*		*78-129*	"	"	"	"	*HT-04*
MW-5 (MMF0128-02) Water Sampled: 06/04/03 08:35 Received: 06/05/03 12:00									
Ethanol	ND	100	ug/l	1	3F12006	06/12/03	06/12/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*78-129*	"	"	"	"	

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1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (MMF0128-03) Water Sampled: 06/04/03 08:45 Received: 06/05/03 12:00									
Ethanol	ND	100	ug/l	1	3F12006	06/12/03	06/12/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*78-129*		"	"	"	"	
MW-6 (MMF0128-04) Water Sampled: 06/04/03 08:55 Received: 06/05/03 12:00									
Ethanol	ND	100	ug/l	1	3F12006	06/12/03	06/12/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*78-129*		"	"	"	"	

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1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMF0128-05) Water Sampled: 06/04/03 09:15 Received: 06/05/03 12:00									
Ethanol	ND	100	ug/l	1	3F12006	06/12/03	06/12/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*78-129*	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMF0128-05) Water Sampled: 06/04/03 09:15 Received: 06/05/03 12:00									
1,1-Dichloroethene	ND	0.50	ug/l	1	3F12006	06/12/03	06/12/03	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*73-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*78-129*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*81-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*71-117*		"	"	"	"	

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1433 N. Third Ave	Project Number: Hayward	Reported:
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Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMF0128-06) Water Sampled: 06/04/03 09:30 Received: 06/05/03 12:00									
Ethanol	ND	100	ug/l	1	3F12006	06/12/03	06/12/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*78-129*	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager. Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMF0128-06) Water Sampled: 06/04/03 09:30 Received: 06/05/03 12:00									
1,1-Dichloroethene	ND	0.50	ug/l	1	3F12006	06/12/03	06/12/03	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*73-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*78-129*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*81-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*71-117*		"	"	"	"	

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1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MMF0128-07) Water Sampled: 06/04/03 09:50 Received: 06/05/03 12:00									
Ethanol	ND	100	ug/l	1	3F12006	06/12/03	06/12/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*113 %*		*78-129*	"	"	"	"	

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Polynuclear Aromatic Compounds by EPA Method 8310

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMF0128-05) Water Sampled: 06/04/03 09:15 Received: 06/05/03 12:00									
Acenaphthene	ND	0.48	ug/l	1	3060183	06/09/03	06/11/03	EPA 8310	
Acenaphthylene	ND	0.95	"	"	"	"	"	"	
Anthracene	ND	0.048	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.048	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.095	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.048	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.095	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.048	"	"	"	"	"	"	
Chrysene	ND	0.048	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.19	"	"	"	"	"	"	
Fluoranthene	ND	0.095	"	"	"	"	"	"	
Fluorene	ND	0.095	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.048	"	"	"	"	"	"	
Naphthalene	ND	0.48	"	"	"	"	"	"	
Phenanthrene	ND	0.048	"	"	"	"	"	"	
Pyrene	ND	0.048	"	"	"	"	"	"	
Surrogate: Carbazole		*80 %*	*58-108*		"	"	"	"	
Surrogate: Terphenyl-d14		*65 %*	*58-120*		"	"	"	"	
MW-1 (MMF0128-06) Water Sampled: 06/04/03 09:30 Received: 06/05/03 12:00									
Acenaphthene	ND	0.48	ug/l	1	3060183	06/09/03	06/11/03	EPA 8310	
Acenaphthylene	ND	0.95	"	"	"	"	"	"	
Anthracene	ND	0.048	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.048	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.095	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.048	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.095	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.048	"	"	"	"	"	"	
Chrysene	ND	0.048	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.19	"	"	"	"	"	"	
Fluoranthene	ND	0.095	"	"	"	"	"	"	
Fluorene	ND	0.095	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.048	"	"	"	"	"	"	
Naphthalene	ND	0.48	"	"	"	"	"	"	
Phenanthrene	ND	0.048	"	"	"	"	"	"	
Pyrene	ND	0.048	"	"	"	"	"	"	
Surrogate: Carbazole		*94 %*	*58-108*		"	"	"	"	
Surrogate: Terphenyl-d14		*83 %*	*58-120*		"	"	"	"	

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F12006 - EPA 5035										
Blank (3F12006-BLK1)				Prepared & Analyzed: 06/12/03						
Benzene	ND	0.50	ug/l							
Ethanol	ND	100	"							
Bromobenzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Bromochloromethane	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Bromoform	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Bromomethane	ND	1.0	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
Benzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Toluene	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
4-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F12006 - EPA 5035										
Blank (3F12006-BLK1)				Prepared & Analyzed: 06/12/03						
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	2.0	"							
1,1-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Hexachlorobutadiene	ND	2.0	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.19*		"	*5.00*		*104*	*78-129*			
Surrogate: Dibromofluoromethane	*4.67*		"	*5.00*		*93.4*	*73-130*			

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F12006 - EPA 5035										
Blank (3F12006-BLK1)				Prepared & Analyzed: 06/12/03						
Surrogate: 1,2-Dichloroethane-d4	*5.19*		*ug/l*	*5.00*		*104*	*78-129*			
Surrogate: Toluene-d8	*4.95*		*"*	*5.00*		*99.0*	*81-116*			
Surrogate: 4-Bromofluorobenzene	*4.95*		*"*	*5.00*		*99.0*	*71-117*			
Laboratory Control Sample (3F12006-BS1)				Prepared & Analyzed: 06/12/03						
Benzene	10.6	0.50	ug/l	10.0		106	78-124			
Methyl tert-butyl ether	9.61	0.50	"	10.0		96.1	63-137			
Benzene	10.6	0.50	"	10.0		106	78-124			
Toluene	11.2	0.50	"	10.0		112	78-129			
Chlorobenzene	10.9	0.50	"	10.0		109	80-127			
1,1-Dichloroethene	11.8	0.50	"	10.0		118	75-124			
Toluene	11.2	0.50	"	10.0		112	78-129			
Trichloroethene	11.3	0.50	"	10.0		113	75-133			
Surrogate: 1,2-Dichloroethane-d4	*5.16*		*"*	*5.00*		*103*	*78-129*			
Surrogate: Dibromofluoromethane	*4.96*		*"*	*5.00*		*99.2*	*73-130*			
Surrogate: 1,2-Dichloroethane-d4	*5.16*		*"*	*5.00*		*103*	*78-129*			
Surrogate: Toluene-d8	*5.00*		*"*	*5.00*		*100*	*81-116*			
Surrogate: 4-Bromofluorobenzene	*4.86*		*"*	*5.00*		*97.2*	*71-117*			
Laboratory Control Sample (3F12006-BS2)				Prepared & Analyzed: 06/12/03						
Benzene	5.70	0.50	ug/l	6.40		89.1	78-124			
Methyl tert-butyl ether	7.46	0.50	"	9.92		75.2	63-137			
Benzene	5.70	0.50	"	6.40		89.1	78-124			
Toluene	35.5	0.50	"	29.7		120	78-129			
Gasoline Range Organics (C6-C10)	441	50	"	440		100	70-113			
Toluene	35.5	0.50	"	29.7		120	78-129			
Surrogate: 1,2-Dichloroethane-d4	*5.50*		*"*	*5.00*		*110*	*78-129*			
Surrogate: Dibromofluoromethane	*5.39*		*"*	*5.00*		*108*	*73-130*			
Surrogate: 1,2-Dichloroethane-d4	*5.50*		*"*	*5.00*		*110*	*78-129*			
Surrogate: Toluene-d8	*5.17*		*"*	*5.00*		*103*	*81-116*			
Surrogate: 4-Bromofluorobenzene	*5.20*		*"*	*5.00*		*104*	*71-117*			

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F12006 - EPA 5035										
Matrix Spike (3F12006-MS1)	**Source: MME0808-04**			Prepared & Analyzed: 06/12/03						
Benzene	56.2	5.0	ug/l	64.0	ND	87.8	78-124			
Methyl tert-butyl ether	526	5.0	"	99.2	730	NR	63-137			E
Benzene	56.2	5.0	"	64.0	ND	87.8	78-124			
Toluene	328	5.0	"	297	ND	110	78-129			
Gasoline Range Organics (C6-C10)	4700	500	"	4400	590	93.4	70-113			
Toluene	328	5.0	"	297	ND	110	78-129			
Surrogate: 1,2-Dichloroethane-d4	*5.48*		"	*5.00*		*110*	*78-129*			
Surrogate: Dibromofluoromethane	*4.89*		"	*5.00*		*97.8*	*73-130*			
Surrogate: 1,2-Dichloroethane-d4	*5.48*		"	*5.00*		*110*	*78-129*			
Surrogate: Toluene-d8	*4.90*		"	*5.00*		*98.0*	*81-116*			
Surrogate: 4-Bromofluorobenzene	*4.86*		"	*5.00*		*97.2*	*71-117*			
Matrix Spike Dup (3F12006-MSD1)	**Source: MME0808-04**			Prepared & Analyzed: 06/12/03						
Benzene	54.3	5.0	ug/l	64.0	ND	84.8	78-124	3.44	12	
Methyl tert-butyl ether	796	5.0	"	99.2	730	66.5	63-137	40.8	13	E
Benzene	54.3	5.0	"	64.0	ND	84.8	78-124	3.44	12	
Toluene	344	5.0	"	297	ND	116	78-129	4.76	10	
Gasoline Range Organics (C6-C10)	4670	500	"	4400	590	92.7	70-113	0.640	9	
Toluene	344	5.0	"	297	ND	116	78-129	4.76	10	
Surrogate: 1,2-Dichloroethane-d4	*5.18*		"	*5.00*		*104*	*78-129*			
Surrogate: Dibromofluoromethane	*4.57*		"	*5.00*		*91.4*	*73-130*			
Surrogate: 1,2-Dichloroethane-d4	*5.18*		"	*5.00*		*104*	*78-129*			
Surrogate: Toluene-d8	*5.07*		"	*5.00*		*101*	*81-116*			
Surrogate: 4-Bromofluorobenzene	*5.03*		"	*5.00*		*101*	*71-117*			
Batch 3F17033 - EPA 5030B P/T										
Blank (3F17033-BLK1)				Prepared & Analyzed: 06/17/03						
Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							O-09
Methyl tert-butyl ether	ND	0.50								O-09
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50								
tert-Amyl methyl ether	ND	0.50	"							

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1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F17033 - EPA 5030B P/T										
Blank (3F17033-BLK1)				Prepared & Analyzed: 06/17/03						
1,2-Dichloroethane	ND	0.50	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.16*		"	*5.00*		*103*	*78-129*			
Laboratory Control Sample (3F17033-BS1)				Prepared: 06/17/03 Analyzed: 06/18/03						
tert-Butyl alcohol	167	20	ug/l	200		83.5				O-09
Methyl tert-butyl ether	9.52	0.50	"	10.0		95.2	63-137			
Benzene	10.1	0.50	"	10.0		101	78-124			
Toluene	10.2	0.50	"	10.0		102	78-129			
Surrogate: 1,2-Dichloroethane-d4	*4.80*		"	*5.00*		*96.0*	*78-129*			
Laboratory Control Sample (3F17033-BS2)				Prepared: 06/17/03 Analyzed: 06/18/03						
Methyl tert-butyl ether	8.65	0.50	ug/l	9.92		87.2	63-137			
Benzene	5.55	0.50	"	6.40		86.7	78-124			
Toluene	32.8	0.50	"	29.7		110	78-129			
Gasoline Range Organics (C6-C10)	446	50	"	440		101	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.06*		"	*5.00*		*101*	*78-129*			
Matrix Spike (3F17033-MS1)	**Source: MMF0098-08**			Prepared: 06/17/03 Analyzed: 06/18/03						
Methyl tert-butyl ether	440	25	ug/l	496	ND	88.7	63-137			
Benzene	870	25	"	320	680	59.4	78-124			QM-07
Toluene	1850	25	"	1480	260	107	78-129			QM-07
Gasoline Range Organics (C6-C10)	55500	2500	"	22000	44000	52.3	70-113			QM-07
Surrogate: 1,2-Dichloroethane-d4	*4.58*		"	*5.00*		*97.6*	*78-129*			

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F17033 - EPA 5030B P/T										
Matrix Spike Dup (3F17033-MSD1)	**Source: MMF0098-08**			Prepared: 06/17/03 Analyzed: 06/18/03						
Methyl tert-butyl ether	458	25	ug/l	496	ND	92.3	63-137	4.01	13	
Benzene	910	25	"	320	680	71.9	78-124	4.49	12	QM-07
Toluene	1940	25	"	1480	260	114	78-129	4.75	10	QM-07
Gasoline Range Organics (C6-C10)	58200	2500	"	22000	44000	64.5	70-113	4.75	9	QM-07
Surrogate: 1,2-Dichloroethane-d4	*4.94*		*"*	*5.00*		*98.8*	*78-129*			
Batch 3F20022 - EPA 5030B P/T										
Blank (3F20022-BLK1)				Prepared & Analyzed: 06/20/03						
Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							O-09
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.14*		*"*	*5.00*		*103*	*78-129*			
Laboratory Control Sample (3F20022-BS1)				Prepared & Analyzed: 06/20/03						
Methyl tert-butyl ether	11.6	0.50	ug/l	10.0		116	63-137			
Benzene	10.4	0.50	"	10.0		104	78-124			
Toluene	10.0	0.50	"	10.0		100	78-129			

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F20022 - EPA 5030B P/T										
Laboratory Control Sample (3F20022-BS2)				Prepared & Analyzed: 06/20/03						
Methyl tert-butyl ether	9.41	0.50	ug/l	9.92		94.9	63-137			
Benzene	5 40	0.50	"	6.40		84.4	78-124			
Toluene	31.5	0.50	"	29.7		106	78-129			
Gasoline Range Organics (C6-C10)	408	50	"	440		92.7	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.28*		"	*5.00*		*106*	*78-129*			
Matrix Spike (3F20022-MS1)	**Source:**			Prepared & Analyzed: 06/20/03						
Methyl tert-butyl ether	464	25	ug/l	496	ND	93.5	63-137			
Benzene	925	25	"	320	710	67.2	78-124			QM-07
Toluene	1730	25	"	1480	250	100	78-129			
Gasoline Range Organics (C6-C10)	59000	2500	"	22000	41000	81.8	70-113			
Surrogate: 1,2-Dichloroethane-d4	*5.23*		"	*5.00*		*105*	*78-129*			
Matrix Spike Dup (3F20022-MSD1)	**Source:**			Prepared & Analyzed: 06/20/03						
Methyl tert-butyl ether	486	25	ug/l	496	ND	98.0	63-137	4.63	13	
Benzene	962	25	"	320	710	78.8	78-124	3.92	12	
Toluene	1850	25	"	1480	250	108	78-129	6.70	10	
Gasoline Range Organics (C6-C10)	61000	2500	"	22000	41000	90.9	70-113	3.33	9	
Surrogate: 1,2-Dichloroethane-d4	*5.29*		"	*5.00*		*106*	*78-129*			

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	**Reported:**
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3060183 - EPA 3520B Liq Liquid										
Blank (3060183-BLK1)				Prepared: 06/09/03 Analyzed: 06/11/03						
Acenaphthene	ND	0.50	ug/l							
Acenaphthylene	ND	1.0	"							
Anthracene	ND	0.050	"							
Benzo (a) anthracene	ND	0.050	"							
Benzo (b) fluoranthene	ND	0.10	"							
Benzo (k) fluoranthene	ND	0.050	"							
Benzo (g,h,i) perylene	ND	0.10	"							
Benzo (a) pyrene	ND	0.050	"							
Chrysene	ND	0.050	"							
Dibenz (a,h) anthracene	ND	0.20	"							
Fluoranthene	ND	0.10	"							
Fluorene	ND	0.10	"							
Indeno (1,2,3-cd) pyrene	ND	0.050	"							
Naphthalene	ND	0.50	"							
Phenanthrene	ND	0.050	"							
Pyrene	ND	0.050	"							
Surrogate: Carbazole	*0.913*		"	*1.00*		*91*	*58-108*			
Surrogate: Terphenyl-d14	*1.87*		"	*2.00*		*94*	*58-120*			
Laboratory Control Sample (3060183-BS1)				Prepared: 06/09/03 Analyzed: 06/11/03						
Acenaphthene	7.76	0.50	ug/l	10.0		78	35-112			
Acenaphthylene	13.6	1.0	"	20.0		68	32-101			
Anthracene	0.759	0.050	"	1.00		76	22-111			
Benzo (a) anthracene	0.833	0.050	"	1.00		83	33-127			
Benzo (b) fluoranthene	1.79	0.10	"	2.00		90	31-129			
Benzo (k) fluoranthene	0.922	0.050	"	1.00		92	28-130			
Benzo (g,h,i) perylene	1.86	0.10	"	2.00		93	16-140			
Benzo (a) pyrene	0.756	0.050	"	1.00		76	27-122			
Chrysene	0.882	0.050	"	1.00		88	30-130			
Dibenz (a,h) anthracene	1.77	0.20	"	2.00		88	10-142			
Fluoranthene	1.59	0.10	"	2.00		80	29-115			
Fluorene	1.45	0.10	"	2.00		72	36-108			
Indeno (1,2,3-cd) pyrene	1.07	0.050	"	1.00		107	25-132			
Naphthalene	6.80	0.50		10.0		68	44-87			
Phenanthrene	0.745	0.050		1.00		74	29-114			

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3060183 - EPA 3520B Liq Liquid										
Laboratory Control Sample (3060183-BS1)				Prepared: 06/09/03 Analyzed: 06/11/03						
Pyrene	0.947	0.050	ug/l	1.00		95	41-115			
Surrogate: Carbazole	*0.840*		"	*1.00*		*84*	*58-108*			
Surrogate: Terphenyl-d14	*1.81*		"	*2.00*		*90*	*58-120*			
Laboratory Control Sample Dup (3060183-BSD1)				Prepared: 06/09/03 Analyzed: 06/11/03						
Acenaphthene	8.54	0.50	ug/l	10.0		85	35-112	10	40	
Acenaphthylene	14.8	1.0	"	20.0		74	32-101	8	20	
Anthracene	0.820	0.050	"	1.00		82	22-111	8	28	
Benzo (a) anthracene	0.818	0.050	"	1.00		82	33-127	2	29	
Benzo (b) fluoranthene	1.83	0.10	"	2.00		92	31-129	2	37	
Benzo (k) fluoranthene	0.956	0.050	"	1.00		96	28-130	4	30	
Benzo (g,h,i) perylene	1.93	0.10	"	2.00		96	16-140	4	51	
Benzo (a) pyrene	0.797	0.050	"	1.00		80	27-122	5	20	
Chrysene	0.885	0.050	"	1.00		88	30-130	0.3	32	
Dibenz (a,h) anthracene	1.85	0.20	"	2.00		92	10-142	4	20	
Fluoranthene	1.67	0.10	"	2.00		84	29-115	5	39	
Fluorene	1.65	0.10	"	2.00		82	36-108	13	25	
Indeno (1,2,3-cd) pyrene	1.11	0.050	"	1.00		111	25-132	4	35	
Naphthalene	7.40	0.50	"	10.0		74	44-87	8	33	
Phenanthrene	0.798	0.050	"	1.00		80	29-114	7	47	
Pyrene	0.979	0.050	"	1.00		98	41-115	3	30	
Surrogate: Carbazole	*0.872*		"	*1.00*		*87*	*58-108*			
Surrogate: Terphenyl-d14	*1.78*		"	*2.00*		*89*	*58-120*			

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BLAES Environmental Management, Inc.	Project: U-Haul	MMF0128
1433 N. Third Ave	Project Number: Hayward	Reported:
Phoenix ARIZONA, 85003	Project Manager: Steve Woodhull	07/11/03 11:59

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
HT-04	This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
O-09	The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference