

Prepared For

Mr. Al Avendano
3228 Hyde Street
Oakland, CA 94601

MAR 22 2001

570-325-3606

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ADDITIONAL GROUNDWATER INVESTIGATION

FORMER WESTERN STUCCO PRODUCTS

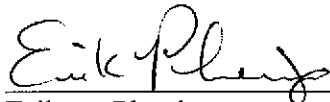
5115 EAST EIGHTH STREET

OAKLAND, CALIFORNIA

March, 2001

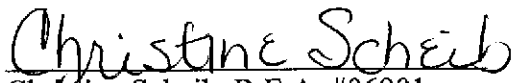
EBA Project Number 00-805

Prepared by:



Eriksen Phenix
Environmental Technician

Reviewed by:

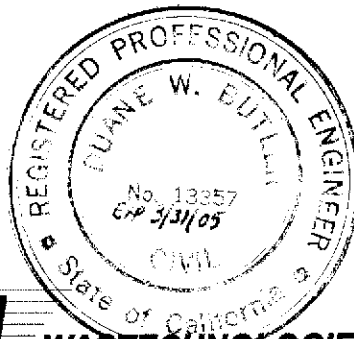


Christine Scheib, R.E.A. #06901
Senior Environmental Specialist

Supervised By



Duane Butler, P.E., C.E. #13357
President R.E.A. #01999



EBA WASTECHNOLOGIES

EBA WASTECHNOLOGIES
Engineers & Environmental Consultants

March 12, 2001

Mr. Barney M. Chan
Hazardous Materials Specialist
Alameda County Health Care Services
Environmental Health Services
Environmental Protection (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**RE: ADDITIONAL GROUNDWATER INVESTIGATION REPORT
FORMER WESTERN STUCCO PRODUCTS
5115 EAST EIGHTH STREET, OAKLAND, CALIFORNIA
EBA Project No. 00-805**

Dear Mr. Chan:

Enclosed please find the Additional Groundwater Investigation Report prepared by EBA WASTECHNOLOGIES (EBA) for the above referenced site. This report documents the results of EBA's additional investigation to characterize the petroleum hydrocarbon impact to soil and groundwater at the project site.

If you have any questions regarding this report, please contact EBA at (707) 544-0784.

Sincerely,
EBA WASTECHNOLOGIES



Eriksen Phenix
Environmental Technician

EP/mc

Attach: Additional Groundwater Investigation Report

cc: Mr. Lewis Winchell, Sacramento Stucco
Mr. Al Avendano, 3228 Hyde Street, Oakland, CA 94601
SFB-RWQCB

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1.0 INTRODUCTION

On September 26, 1997, Gregg Drilling & Testing of Martinez, California, under the supervision of EBA Wastechologies (EBA), advanced seven soil borings at the project site. The purpose of these borings was to define the extent of petroleum hydrocarbon impact to groundwater. This initial investigation was requested by Alameda County Health Care Services (ACHCS) following a March 1991 underground storage tank removal which revealed the presence of petroleum hydrocarbons in the soil and groundwater at the site. Analytical results from a September 1997 investigation prompted ACHCS, in a letter dated December 31, 1997, to require an additional groundwater investigation at the project site.

1.1 Scope of Work

EBA originally proposed the installation of three additional soil borings at the project site. The soil borings were to be converted into 2-inch monitoring wells which would assist in the delineation of the groundwater contamination plume. Following review and discussion of the work plan with Mr. Barney Chan of ACHCS, a Work Plan Addendum was prepared which included the installation of a 4-inch observation/extraction well. The purpose of this well is to allow for the possibility of free product removal/treatment. The proposed locations of the wells were selected using data generated from the September, 1997 investigation (EBA 1997).

~~The scope of work for this investigation included the installation of four wells, collection and analysis of soil samples, development of the wells, and collection and analysis of groundwater samples.~~ Samples were collected in accordance with ACHCS and San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) standards. The samples were picked up by a courier from Alpha Analytical Laboratories of Ukiah California, and analyzed for TPH-g, TPH-d, BTEX, and MtBE. Further details of the scope of work for this investigation can be found in the Work Plan (EBA 2000a) and the Work Plan Addendum (EBA 2000b).

1.2 Site Location

The project site is located in the City of Oakland, between East Eighth Street to the east and the Southern Pacific Railroad tracks to the west, in Alameda County, California; please refer to the Location Map, Figure 1. An auto dismantling facility is adjacent to the project site to the north and a junk yard is across East Eighth Street to the east; neither of these two sites were observed to be practicing good housekeeping practices. The site is at an approximate elevation of 5 feet above mean sea level (MSL). San Leandro Bay is located approximately 2,400 feet southwest of the subject site. Land use in this area is predominantly industrial and commercial.

1.3 Site History

The subject site was formerly a stucco products facility where the ingredients for stucco were stored and mixed. On March 26, 1991 two 8,000-gallon steel USTs were removed from the site under the supervision of Kaprealian Engineering, Inc. (KEI), of Benicia, California. One UST stored diesel fuel and the other UST stored unleaded gasoline. Each UST was removed from a separate excavation. Four holes with a maximum diameter of 1/2 inch were observed in the

gasoline UST. Ms. Cynthia Chapman of the ACHCS was present during the USTs removal and subsequent soil sampling.

Groundwater was encountered in the UST excavations at the time of removal at an approximate depth of nine feet below ground surface (bgs). Due to the groundwater in the UST excavations, samples from beneath the former USTs could not be collected. KEI collected four sidewall soil samples from the UST excavations approximately 6 inches above the groundwater level.

Approximately 4,000 gallons of groundwater was pumped from the UST excavations after the soil sampling was completed. On March 28, 1991 KEI collected a groundwater sample from the gasoline UST excavation. KEI returned to the site on March 29, 1991 and collected a groundwater sample from the diesel UST excavation. Ms. Cynthia Chapman with the ACHCS was present during the groundwater sampling.

The samples were analyzed by Sequoia Analytical Laboratory in Concord, California, for total petroleum hydrocarbons as gasoline (TPH-g), total petroleum hydrocarbons as diesel (TPH-d), benzene, toluene, ethyl benzene and xylenes (BTEX).

Analytical results of the two soil samples collected from the diesel UST excavation detected TPH-g at 120 parts per million (ppm) each and TPH-d at 100 and 21 ppm. The analytical results of the groundwater sample collected from the diesel UST excavation indicated TPH-g at 1,500 parts per billion (ppb), TPH-d at 34,000 ppb and benzene at 240 ppb. Analytical results of the two soil samples collected from the gasoline UST excavation were below laboratory detectable limits for all analytes except xylenes. The analytical results of the groundwater sample collected from the gasoline UST excavation indicated TPH-g at 800 ppb, TPH-d at 13,000 ppb and benzene at 1.8 ppb.

On April 4, 1997, EBA Wastechologies (EBA) personnel visited the subject site and collected samples from the three on-site soil stockpiles. The samples were analyzed by Legend Analytical Services of Santa Rosa, California, for TPH-g, TPH-d and BTEX. The soil stockpile samples were below detectable levels for TPH-g and BTEX. TPH-d was detected in the soil stockpile samples at concentrations of 290 ppm, 92 ppm and 78 ppm. On May 19, 1997, Canal Material Services, Inc. of Stockton, California, transported and disposed of approximately 130 cubic yards of stockpiled soil at Forward Inc. Landfill in Stockton, California.

In a June 16, 1997 letter Mr. Barney Chan of ACHCS requested a work plan to perform additional site characterization at the subject site. In response to this request EBA prepared a groundwater investigation work plan, dated July 24, 1997. The work plan was implemented on September 26, 1997 when EBA supervised the installation of seven soil borings. Soil and grab groundwater samples were collected from the borings and analyzed for TPH-g, TPH-d, BTEX, and MtBE. TPH-g was detected in three of the six soil samples submitted for analysis at concentrations up to 2,300 parts per million. Three of the three groundwater samples submitted for analysis contained detectable levels of TPH-g up to 590 ppm. Benzene was detected in two of the groundwater samples at concentrations up to 560 ppb. Further details from this investigation can be found in the Subsurface Investigation Report (EBA, 1997).

2.0 CURRENT INVESTIGATION

2.1 Additional Groundwater Plume Definition

On February 1, 2001, EBA observed Precision Drilling of Richmond, California, install three soil borings (EBA-8, EBA-9, and EBA-10) at the subject property. The soil borings were then completed as a two-inch monitoring wells (MW-2, MW-1, and MW-3 respectively, Figure 2). The wells were installed at the request of the ACHCS to further define and monitor the groundwater contamination plume. A summary of the field procedures employed by EBA was included in the Work Plan (EBA 2000a).

Soil borings were continuously sampled using direct push technology, and soil samples were collected in 3 feet long clear acetate tubes, 3.5 inches in diameter. Soil samples were collected for chemical analysis at obviously contaminated layers, and at the approximate groundwater interface. Samples were collected for analysis by cutting the acetate tubes at the desired depths, sealing the ends with teflon sheets and end caps, and placing under refrigerated conditions pending transport to a State-certified analytical laboratory under chain-of-custody procedures.

Soil samples collected in the field were screened for the presence of hydrocarbon vapors using a photoionization detector (PID). Soil boring EBA-8 was drilled to a total depth of 22 feet below ground surface (bgs), soil borings EBA-9 and EBA-10 were installed to a total depth of 20 feet bgs. PID readings and the conditions encountered during drilling activities are described in the Boring Logs, Appendix C.

The percussion rods, tools and sampling equipment were cleaned before each boring to minimize the possibility of cross-contamination. The equipment was cleaned with a trisodium phosphate solution, a potable water rinse, and deionized water rinse. Decontamination water from equipment clean-up is stored on-site in properly labeled DOT-17H 55-gallon drums.

2.2 Groundwater Monitoring Well Construction

Groundwater monitoring wells MW-1, MW-2, and MW-3 were constructed in borings EBA-9, EBA-8, and EBA-10, respectively. Soil boring sequence was determined by the anticipated concentration of contaminants at the proposed boring locations. For this reason, ~~the~~ drilled first in the sequence was boring EBA-8.

Monitoring wells were completed with 2-inch inner-diameter, Schedule 40, polyvinyl chloride (PVC) casing. The well casings were set in the wells to a depth of 20 feet bgs. The screened casing for the monitoring wells were constructed with 2-inch inner-diameter, 0.010 inch machine-slotted PVC set from the total depth of the wells to 5 feet bgs. Monterey Sand #2/12 was used as filter pack material installed to approximately 1 foot above the well screen. Blank PVC casing was set from the top of the screened casing to within a few inches bgs. A 2-foot bentonite seal was placed above the sand pack. The remaining portion of the annular space was filled with a cement slurry and the top of the well was set in a water tight traffic-rated box (please see "well construction detail" on boring logs, Appendix C).

2.3 Monitoring Well Development

The wells were developed by surge block and bailing techniques until water being removed from the wells was found to be relatively free of sediments. The wells were surged and bailed for approximately 1.5 hours, each. Twenty to forty gallons of groundwater were removed from each well. The wells were measured to be recovering at a rate of 1/10 to 2/10 of a foot per minute following well development. However, the rate of recovery in these same wells was found to be significantly slower during the February 6 sampling event. Field data sheets showing monitoring well development data are attached in Appendix D.

2.4 Monitoring Well Sampling

On February 6, 2001 groundwater samples were obtained from groundwater monitoring wells MW-1, MW-2, and MW-3. Prior to sampling, each well was purged until dry, and allowed to recover for a period of approximately four hours.

Groundwater parameters including pH, electrical conductivity, and temperature were monitored during well purging. The wells were considered adequately purged when there was no longer standing water in the well casing. Groundwater sampling logs recording sampling measurements are included in Appendix D.

Water samples were collected from each monitoring well with a single sample disposable bailer fitted with a bottom-emptying device to minimize water degassing. Properly labeled, laboratory supplied, sterile sample containers were used for sample collection. The water samples were logged on a chain-of-custody form and placed in an ice chest. The samples were picked up by a courier from Alpha Analytical (Alpha), a California State-certified laboratory for chemical analytical testing. Laboratory report and chain-of-custody forms are included with this report in Appendix E.

2.5 Observation Well Installation and Sampling

On February 20, 2001 EBA Environmental Services observed Precision Sampling of Richmond install a 4-inch observation/extraction well at the project site. The location of the well was chosen to coincide with soil boring B-3, which in 1997 revealed the presence of free hydrocarbon product (EBA, 1997). The purpose of the well is to allow for free product removal or treatment.

Soil boring EBA-11 was continuously sampled using direct push technology, and soil samples were collected in 3 feet long clear acetate tubes, 3.5 inches in diameter. The soil core was advanced to a total depth of 20 feet bgs, and samples were collected for laboratory analysis at 3 feet, 7 feet, and 17 feet bgs. The soil boring was then overdrilled with 8-inch hollow stem augers to allow for the installation of the 4-inch well casing and an adequate sand pack.

Observation well OW-1 was constructed in the 8-inch boring to a total depth of 20 feet bgs, with a screened interval extending from 5-20 feet bgs. Please see "well construction detail" on the boring log included in Appendix C.

No free standing water was observed in the observation well at the time of installation. EBA personnel returned to the project site on February 28, 2001 to conduct a site survey. On this date, depth to groundwater from top of casing in observation well OW-1 was measured at 2.37 feet. A grab groundwater sample was collected on this date and submitted under chain-of-custody procedures to Alpha Analytical. Laboratory report and chain-of-custody forms are included with this report in Appendix E.

2.6 Groundwater Level Measurements

Depth to groundwater was measured on several different occasions following monitoring well installation. Water levels were observed to vary a great deal between monitoring wells on the same date, and between observation events. It is believed that this phenomenon is caused by the fine grained lithology of the area, and the slow recovery rates associated with this type of lithology.

Groundwater levels were recorded during the February 28, 2001 site visit. The monitoring wells had remained undisturbed for a period of 22 days. A water level measurement was also available in the observation well on this date. EBA believes the measurements recorded on this date to be representative of the groundwater flow pattern at the site. A Potentiometric Surface Map was created using water level data obtained during the February 28, 2001 site visit. On this date, groundwater flow direction was calculated to range from approximately S29°W to N37°W, with a groundwater gradient ranging from 0.02 to 0.15 feet/feet respectively. Groundwater elevation data is shown on the Potentiometric Surface Map, (Figure 3, Appendix A) and is summarized in Table 1, Appendix B.

3.0 ANALYTICAL METHODS

3.1 Soil Samples

Soil samples collected from soil borings EBA-8 through EBA-11 were submitted under Chain of Custody Record to Alpha Analytical Laboratories of Ukiah, California. The soil samples were analyzed for total petroleum hydrocarbons as gas (TPH-g) using Environmental Protection Agency (EPA) Method 5030A, TPH as diesel (TPH-d) using EPA Method 8015M, and benzene, toluene, ethylbenzene, total xylenes (BTEX), and MtBE using EPA Method 8020. The results of soil sample analyses are summarized in Table 2, Appendix B. Laboratory reports and Chain-of-Custody Records are included in Appendix E.

3.2 Groundwater Samples

The groundwater samples collected from monitoring wells MW-1, MW-2, MW-3, and the observation/extraction well were submitted under Chain of Custody Record to Alpha. The groundwater samples were analyzed for TPH-g using EPA Method 5030A, TPH-d using EPA Method 8015M, and BTEX, and MtBE, using EPA Method 8020. The results of groundwater sample analyses are summarized in Table 3, Appendix B. Laboratory reports and Chain-of-Custody Records are included in Appendix E.

4.0 FINDINGS

4.1 Regional Hydrogeologic Setting

The subject site is mapped as being underlain by Holocene alluvium (U.S. Geologic Survey Professional Paper 943 "Flatland Deposits of the San Francisco Bay Region," California, 1979). The subject site is mapped as being situated at the approximate geologic contact of bay mud and fine grained alluvium. The fine-grained alluvium is defined as typically consisting of unconsolidated, moderately to poorly sorted silt and clay rich in organic material. These materials are assumed to overlie older alluvial fan and stream terrace deposits on the bay margin. The Bay Mud is described as typically consisting of unconsolidated, water-saturated plastic clay and silty clay rich in organic material, which locally contains lenses of well-sorted silt, sand and beds of peat.

4.2 Site Hydrogeology

Soils at the subject site encountered during well installation activities appeared to consist primarily of silty sands, sandy silts, and sandy to silty clays with varying amounts of gravel to a depth of 20 feet bgs. A stiff clay layer was observed in soil boring EBA-8 (MW-2) from 20 to 22 feet bgs which represents the total depth explored. Boring Logs noting the subsurface conditions encountered during monitoring well installation are presented in Appendix C.

Groundwater was initially encountered at approximately 18' bgs in a fine-grained sand layer. During the February 28, 2001 site visit, groundwater flow direction was calculated to range from approximately S29°W to N37°W, with a groundwater gradient ranging from 0.02 to 0.15 feet/feet respectively.

4.3 Soil Sample Analytical Results

Results of laboratory analyses of soil samples are summarized in Table 2, Appendix B. Copies of laboratory reports and Chain of Custody documents for soil samples obtained during this investigation are included in Appendix E.

Laboratory analysis of soil samples collected from borings EBA-8 through EBA-11 indicated:

- Hydrocarbon impact as gasoline and/or diesel in all current soil borings ranging from a depth of 1.5 feet bgs to 18.5 feet bgs.
- TPH-g was below laboratory detection limit for the three soil samples submitted from soil boring EBA-11. TPH-d concentrations were detected in this boring at concentrations up to 2000 parts per billion (ppb).
- BTEX constituents were non-detect for all soil samples with the exception of trace amounts of Ethylbenzene in soil boring EBA-9 at 2.5 feet and 9.5 feet. MtBE was not detected in any of the soil samples submitted for analysis.

4.4 Groundwater Sample Analytical Results

Results of laboratory analyses of groundwater samples are summarized in Table 3, Appendix B. Copies of laboratory reports and Chain of Custody documents for water samples obtained during this investigation are included in Appendix E.

Results of the laboratory analyses of groundwater samples from monitoring wells MW-1 through MW-3 and the observation well OW-1 indicate that:

- Concentrations of TPH-g, and TPH-d, were detected in all monitoring wells and the observation well.
- BTEX constituents were detected in well MW-2 only.
- MtBE was not detected above the laboratory detection limit in any of the groundwater samples analyzed.

5.0 CONCLUSIONS

Based on the findings of this subsurface investigation, soil and groundwater at the project site have been impacted by petroleum hydrocarbons as gasoline and/or diesel, to the extent explored by this investigation. Soil samples collected from soil boring EBA-11 were non-detect for gasoline and BTEX constituents, however, high levels of diesel were detected in the samples from this boring. All other soil samples were non-detect for BTEX constituents with the exception of EBA-9.

Groundwater at the project site has been impacted by petroleum hydrocarbons as both gasoline and diesel. Groundwater samples were non-detect for BTEX and MtBE with the exception of the samples obtained from monitoring well MW-2, which was found to contain BTEX constituents.

6.0 RECOMMENDATIONS

Based on the findings and field observations documented in this report, EBA recommends that monitoring wells MW-1, MW-2, and MW-3 should be sampled on a quarterly basis for one hydrologic cycle. EBA believes that the additional data generated by quarterly sampling will be useful in determining future action for the site. Groundwater samples should be analyzed for TPH-d, TPH-g, and BTEX. Analysis for MtBE should be discontinued due to the absence of this compound in the soil and groundwater samples analyzed for this investigation.

Water level measurements should be collected quarterly from all on-site monitoring wells in order to define the groundwater flow direction and to determine the potential for an up gradient off-site source. Quarterly reports presenting analytical results from the groundwater samples and groundwater flow direction data should be submitted to the ACHCS following each sampling

event. After the completion of this one year groundwater sampling period, EBA will make recommendations for additional investigation or site closure.

7.0 LIMITATIONS

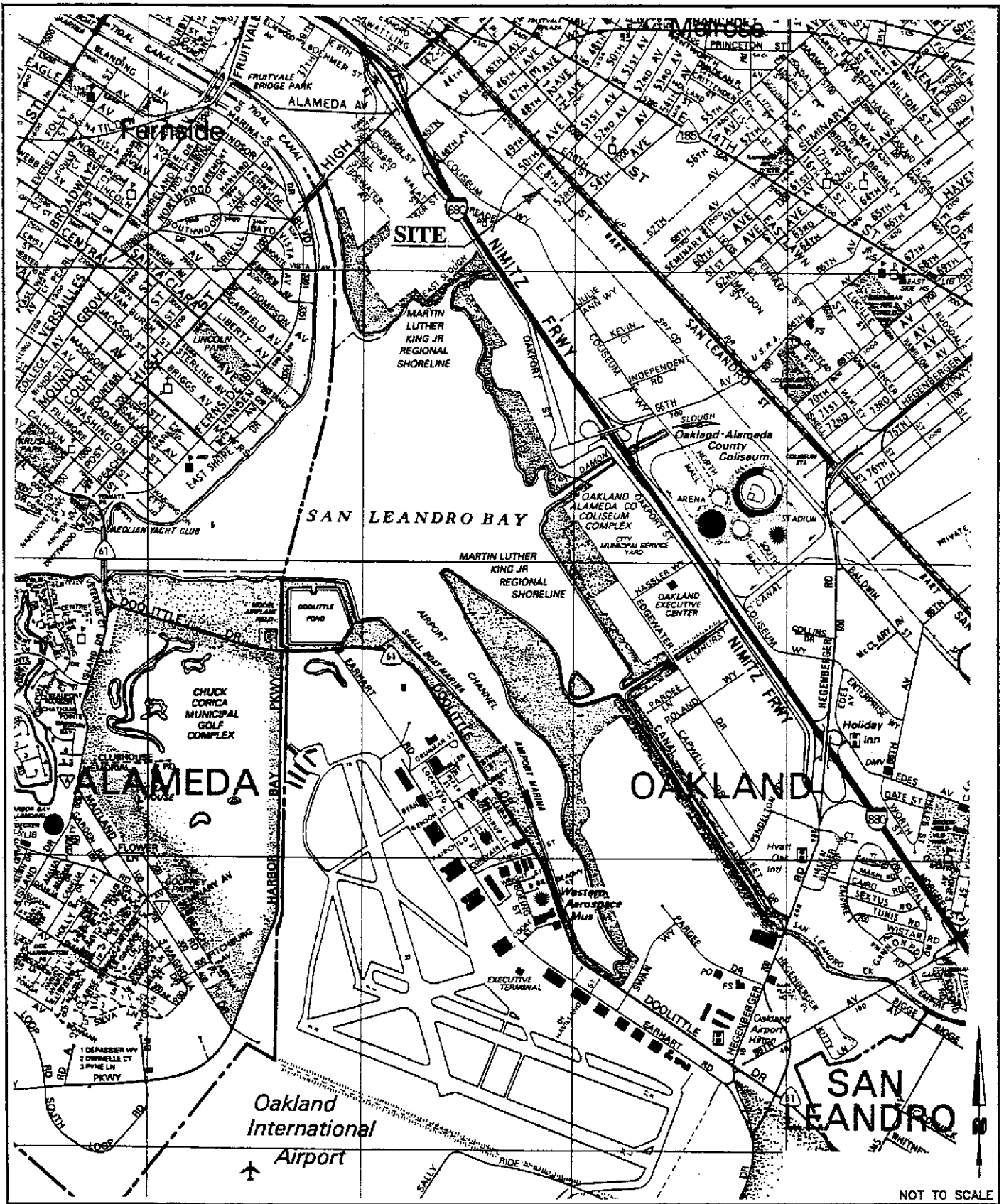
The conclusions presented in this report are professional opinions based on the data presented in this report. They are intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the subject property can occur with time because of natural processes or the works of man on the project site or on adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

8.0 REFERENCES

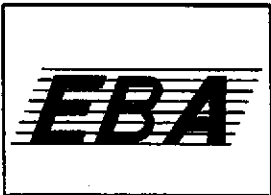
EBA 1997; Subsurface Investigation, Former Western Stucco Products, 5115 East Eighth Street Oakland California, EBA Wastechologies, December 1997.

EBA 2000a; Additional Groundwater Investigation Work Plan, Former Western Stucco Products, 5115 East Eighth Street Oakland California, EBA Wastechologies, October 13, 2000.

EBA 2000b; Former Western Stucco Site, 5115 East Eighth Street Oakland California, Work Plan Addendum, EBA Wastechologies, October 30, 2000.



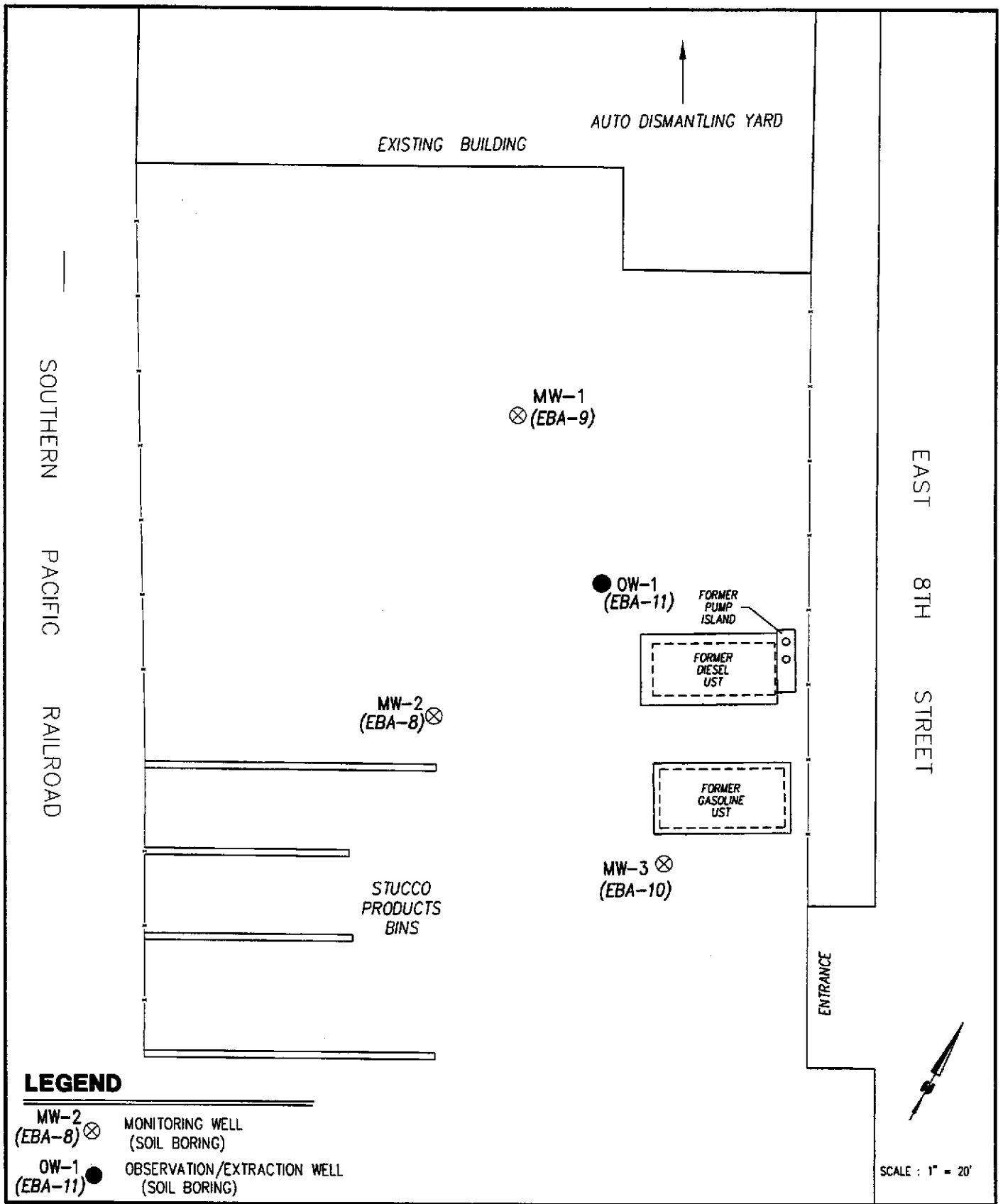
NOT TO SCALE



WESTERN STUCCO PRODUCTS
 5115 EAST 8TH STREET
 OAKLAND, CALIFORNIA

LOCATION MAP

FIGURE
 1
 JULY 1997
 484LM.DWG



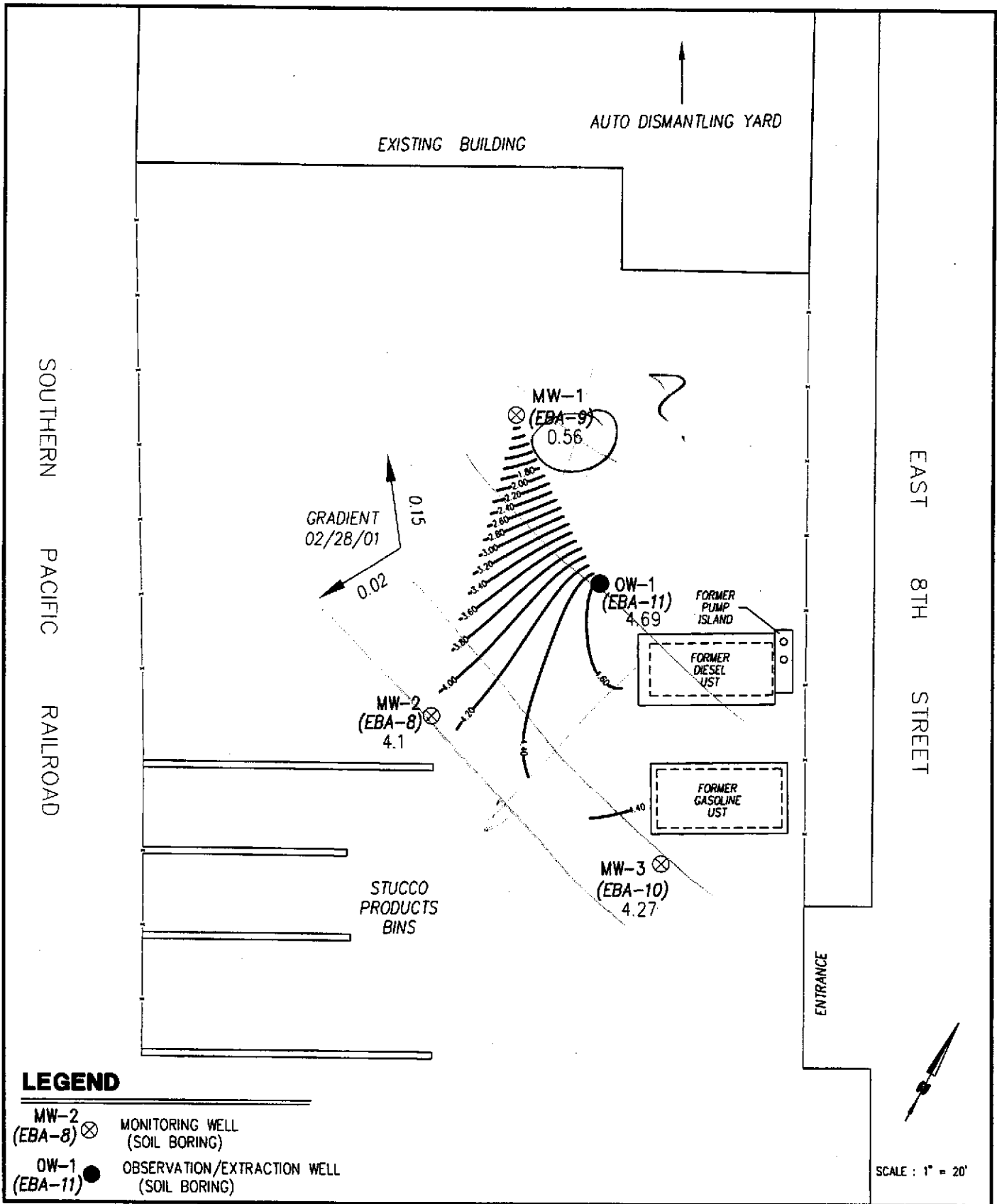
LEGEND

- MW-2 (EBA-8) ⊗ MONITORING WELL (SOIL BORING)
- OW-1 (EBA-11) ● OBSERVATION/EXTRACTION WELL (SOIL BORING)



WESTERN STUCCO PRODUCTS
 5115 EAST 8TH STREET
 OAKLAND, CALIFORNIA
SITE PLAN

FIGURE
2
 MARCH 2001
 0:\00-805
 SURVEY.DWG



WESTERN STUCCO PRODUCTS
 5115 EAST 8TH STREET
 OAKLAND, CALIFORNIA
POTENTIOMETRIC SURFACE MAP
FEBRUARY 28, 2001

FIGURE

3

MARCH 2001
 0: \00-805
 SURVEY.DWG

APPENDIX B
TABULATED ANALYTICAL RESULTS

TABLE 1. WELL SURVEY AND WATER LEVEL DATA
Former Western Stucco Facility
5115 East 8th Street, Oakland, CA

Monitoring Well ID	Well Depth (ft.)	Screen Interval (ft.)	TOC Elevation (ft.)	Depth to Groundwater from TOC (ft.)	Groundwater Elevation (ft. MSL)	Date
MW-1	19.60	5 - 19.60	7.01	13.49	-6.48	2/5/01
				16.51	-9.50	2/6/01
				9.30	-2.29	2/20/01 (1050)
				8.05	-1.04	2/20/01 (1605)
				6.45	0.56	2/28/01
MW-2	18.40	5 - 18.40	7.11	4.21	2.90	2/5/01
				6.61	0.50	2/6/01
				3.95	3.16	2/20/01 (1050)
				3.12	3.99	2/20/01 (1605)
				3.01	4.10	2/28/01
MW-3	19.75	5 - 19.75	6.69	9.04	-2.35	2/5/01
				14.70	-8.01	2/6/01
				3.15	3.54	2/20/01 (1050)
				3.05	3.64	2/20/01 (1605)
				2.42	4.27	2/28/01
OW-1	20	5 - 20	7.06	2.37	4.69	2/28/01

ft. MSL = Feet relative to mean sea level

TABLE 2. SOIL SAMPLE ANALYTICAL RESULTS
Former Western Stucco Facility
5115 East 8th Street, Oakland, CA

SAMPLE ID	DATE	TPH-g mg/kg	TPH-d mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	MTBE mg/kg
EBA-8@1.5'	2/1/01	460	300	ND	ND	ND	ND	ND
EBA-8@18'	2/1/01	2.7	ND	ND	ND	ND	ND	ND
EBA-9@2.5'	2/1/01	110	100	ND	ND	0.11	ND	ND
EBA-9@9.5'	2/1/01	62	29	ND	ND	.065	ND	ND
EBA-9@18'	2/1/01	1.4	ND	ND	ND	ND	ND	ND
EBA-10@8'	2/1/01	1.5	ND	ND	ND	ND	ND	ND
EBA-10@18.5'	2/1/01	190	360	ND	ND	ND	ND	ND
OW-1@3'	2/20/01	ND	2000	ND	ND	ND	ND	ND
OW-1@7'	2/20/01	ND	360	ND	ND	ND	ND	ND
OW-1@17'	2/20/01	ND	160	ND	ND	ND	ND	ND

TPH-g = Total Petroleum Hydrocarbons as gasoline
 TPH-d = Total Petroleum Hydrocarbons as diesel
 ND = Not Detected above reporting limit
 SEE LABORATORY REPORT FOR REPORTING LIMITS

TABLE 3. GROUNDWATER SAMPLE ANALYTICAL RESULTS
Former Western Stucco Facility
5115 East 8th Street, Oakland, CA

SAMPLE ID	DATE	TPH-g µg/L	TPH-d µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L	MTBE µg/L
MW-1	2/6/01	950	260	ND	ND	ND	ND	ND
MW-2	2/6/01	2600	530	1.1	0.43	0.87	1.7	ND
MW-3	2/6/01	340	250	ND	ND	ND	ND	ND
OW-1	2/28/01	2400	8200	ND	ND	ND	ND	ND

TPH-g = Total Petroleum Hydrocarbons as gasoline
 TPH-d = Total Petroleum Hydrocarbons as diesel
 ND = Not Detected above reporting limit
 SEE LABORATORY REPORT FOR REPORTING LIMITS

APPENDIX C
BORING LOGS

EBA WASTECHNOLOGIES

FIELD LOCATION OF BORING: See Site Map

PROJECT:
Former Western Stucco
Facility

BORING: EBA-9/MW-1 SHEET 1 of 1

CASING/GROUND ELEV:

JOB NUMBER: 00-805

LOGGED BY: E. Phenix

DATE: 2/1/01

DRILLER: Precision; Valentin

EQUIPMENT AND SPECIFICATIONS:
Direct Push
Continuous 3.5" Core

WATER DEPTH: 18' bgs.
TIME: 1345 DATE: 2/1/01
WATER DEPTH: 17.2' bgs.
TIME: 1630 DATE: 2/1/01

TESTING		SAMPLE						Soil Symbol	USCS Soil Classification	Profile Description	Well Construction Detail	Water Level	Remarks
Physical Analysis	Chemical Analysis	PID (ppm)	Sample I.D.	Sample Cond.	Blows/ft.	Recovery	Depth (ft.)						
		326	EBA-9@2.5'				1	SM	Concrete 0-6" Gravel Fill			traffic box and concrete to 2' bgs.	
							2	ML	SILTY SAND; dark gray, moist, ~40% silt, strong sharp odor			2' bentonite seal	
							3	ML	SILT; black, stiff, moist, low est. K				
							4						
							5	ML	CLAYEY SILT; light gray, stiff, moist, ~30% clay, 70% silt, low est. K			#2/12 sand 4-20' bgs.	
							6						
		54.2	EBA-9@9.5'				7		gravel lense from 7' - 7.5' bgs., sand and gravels to 1/2"				
							8	ML	SILT; black, stiff, moist				
							9						
							10		SANDY SILT; olive gray, stiff, moist, 20-40% sand, sparse gravels to 1/4"				
							11		increasing gravels				
							12						
							13	CL	SILTY CLAY; mottled brown and gray, stiff, moist, low to moderate plasticity				
		2.4					14						
							15						
							16						
							17						
			EBA-9@18'				18	SM	GRAVELLY SILTY SAND; light brown, wet, ~20% silt, 30% gravels to 1/2", ~50% sand, low to moderate est. K				
		0					19						
							20					0.010" slotted casing 5-20' bgs.	
							21		BOTTOM OF BORING @ 20' BGS. 1350				
							22						
							23						
							24						
							25						

EBA WASTECHNOLOGIES

FIELD LOCATION OF BORING: See Site Map

PROJECT:
Former Western Stucco
Facility

BORING: EBA-10/MW-3 SHEET 1 of 1

CASING/GROUND ELEV:

JOB NUMBER: 00-805

LOGGED BY: E. Phenix

DATE: 2/1/01

DRILLER: Precision; Valentin

EQUIPMENT AND SPECIFICATIONS:

Direct Push
Continuous 3.5" Core

WATER DEPTH: 17.5' bgs.

TIME: 1525 DATE: 2/1/01

WATER DEPTH: 19' bgs.

TIME: 1630 DATE: 2/1/01

TESTING			SAMPLE				Depth (ft.)	Soil Symbol	USCS Soil Classification	Profile Description	Well Construction Detail	Water Level	Remarks		
Physical Analysis	Chemical Analysis	PID (ppm)	Sample I.D.	Sample Cond.	Blows/bin.	Recovery									
		1.2	EBA-10@8'				1		Concrete 0-6"			traffic box and concrete to 2' bgs.			
								2	SM		Gravel Fill			2' bentonite seal	
								3			SILTY GRAVELLY SAND; dark brown, damp, 10-30% gravels to 1", ~20% silt				
								4			SILT; black, stiff, damp, high plasticity, low est. K				
		1.8						5	ML						
								6			CLAYEY SILT; medium to light gray, 20-40% clay, moderate plasticity, low est. K				#2/12 sand 4-20' bgs.
								7							
								8							
								9	SM		SILTY GRAVELLY SAND; olive gray, moist, 10-20% silt, 20-40% gravel, slight odor				
		1.1						10			sparse gravels to 1/4"				0.010" slotted casing 5-20' bgs.
							11		SILTY CLAY; light gray, moist, moderate plasticity, low est. K						
							12	CL							
							13								
							14								
							15								
							16		GRAVELLY SILTY CLAY; light gray, 20-40% gravels to 1/2"						
							17								
		1.0	EBA-10@18.5'				18	SM	GRAVELLY SILTY SAND; light gray, wet, 10-20% silt, 20-30% gravels to 1/4"						
								19							
								20							
								21		BOTTOM OF BORING @ 20' BGS. 1530					
							22								
							23								
							24								
							25								

EBA WASTECHNOLOGIES

FIELD LOCATION OF BORING: See Site Map

PROJECT:
Former Western Stucco
Facility

BORING: EBA-11/OW-1 SHEET 1 of 1

CASING/GROUND ELEV:

JOB NUMBER: 00-805

LOGGED BY: E. Phenix

DATE: 2/20/01

DRILLER: Precision; Valentin, Wayne

EQUIPMENT AND SPECIFICATIONS:

Direct Push
Continuous 3.5" Core,
8" Hollow Stem Auger

WATER DEPTH: 14' bgs.

TIME: 1320 DATE: 2/28/01

WATER DEPTH: 2.37' bgs.

TIME: 1135 DATE: 2/1/01

TESTING			SAMPLE					Soil Symbol	USCS Soil Classification	Profile Description	Well Construction Detail	Water Level	Remarks
Physical Analysis	Chemical Analysis	PID (ppm)	Sample I.D.	Sample Cond.	Blows/ft.	Recovery	Depth (ft.)						
		7.2	EBA-11@3'				1	SM	Concrete 0-8" Gravel Fill			traffic box and concrete to 2' bgs.	
		21.3	EBA-11@7'				2	SM	SILTY SAND; dark gray, moist, 20-40% silt, low to moderate est. K, petroleum odor			2' bentonite seal	
			EBA-11@7'				3	SM					
			EBA-11@7'				4	SM					
			EBA-11@7'				5	SM					
			EBA-11@7'				6	ML	SILT; black, moist, medium stiff, low est. K, slight petroleum odor			#2/12 sand 4-20' bgs.	
			EBA-11@7'				7	ML					
			EBA-11@7'				8	ML	SANDY SILT; light gray, moist, 20-30% sand, 10% gravels to 1/4", low est. K, petroleum odor				
			EBA-11@7'				9	ML					
			EBA-11@7'				10	ML					
		6.4	EBA-11@17'				11	ML				0.010" slotted casing 5-20' bgs.	
			EBA-11@17'				12	CL	CLAY; light gray, moist, stiff to very stiff, low est. K				
			EBA-11@17'				13	CL					
			EBA-11@17'				14	CL					
			EBA-11@17'				15	CL					
			EBA-11@17'				16	CL					
			EBA-11@17'				17	CL					
			EBA-11@17'				18	CL					
			EBA-11@17'				19	CL					
			EBA-11@17'				20	CL					
			EBA-11@17'				21	CL					
			EBA-11@17'				22	CL					
			EBA-11@17'				23	CL					
			EBA-11@17'				24	CL					
			EBA-11@17'				25	CL					
									BOTTOM OF BORING @ 20' BGS. 1330				

APPENDIX D
FIELD DATA SHEETS

EBA WASTECHNOLOGIES

825 Sonoma Avenue
Santa Rosa, California 95404
(707)544-0784 FAX (707)544-0866

WELL DEVELOPMENT

Project No.: 00-805
Project: Western Stucco
5115 East Eighth Street, Oakland
Date: 2/5/01
Time: 1000
Recorded by: E. Phenix

Well No: MW-1
Well Depth from TOC: 19.60'
Well Diameter: 2"
Product Level from TOC: None
Water Level from TOC: 13.49
Screened: 5-20' bgs.
Elevation: _____

WEATHER:

Wind: 0-5 mph.

Precip in last 5 days: 0"

CALIBRATION:	Temp°C	EC	pH	Date	Time
Standard:			4.01	2/5/01	1105
			10.01	2/5/01	1105

Before Development:

After Development:

FIELD MEASUREMENTS:

Time	pH	EC	Temp°C	Gallons Removed	Appearance
1135	7.18	2.41	19.5	0	Silty
1138	7.19	2.37	19.5	1	Silty

----- Well dry after 1.2 gallons removed. Infuse with clean water, continue to surge and bail -----

DEVELOPMENT METHOD: Surge & Bail

FLOATING PRODUCT: None

TOTAL GALLONS REMOVED: 1.2 gal. Formation water, ~ 20 gal. total

RECHARGE RATE (feet/min.): 0.20 feet/min.

EBA WASTECHNOLOGIES

825 Sonoma Avenue
Santa Rosa, California 95404
(707)544-0784 FAX (707)544-0866

WELL DEVELOPMENT

Project No.: 00-805
Project: Western Stucco
5115 East Eighth Street, Oakland
Date: 2/5/01
Time: 1000
Recorded by: E. Phenix

Well No: MW-2
Well Depth from TOC: 18.40'
Well Diameter: 2"
Product Level from TOC: None
Water Level from TOC: 4.21'
Screened: 5-18.40' bgs.
Elevation: _____

WEATHER:

Wind: 0-5 mph.

Precip in last 5 days: 0"

CALIBRATION:	Temp°C	EC	pH	Date	Time
Standard:			4.01	2/5/01	1103
			10.01	2/5/01	1105

Before Development:

After Development:

FIELD MEASUREMENTS:

Time	pH	EC	Temp°C	Gallons Removed	Appearance
1209	7.34	1495	16.8	0	Extremely silty
1211	7.28	1450	17.0	2	Extremely silty

----- Dry after 3.5 gallons removed. Infuse with clean water, continue to surge and bail. -----

DEVELOPMENT METHOD: Surge & Bail

FLOATING PRODUCT: None

TOTAL GALLONS REMOVED: 3.5 gal. Formation water, ~ 30 gal. total

RECHARGE RATE (feet/min.): 0.10 ft/min.

EBA WASTECHNOLOGIES

825 Sonoma Avenue
Santa Rosa, California 95404
(707)544-0784 FAX (707)544-0866

WELL DEVELOPMENT

Project No.: 00-805
Project: Western Stucco
5115 East Eighth Street, Oakland
Date: 2/5/01
Time: 1000
Recorded by: E. Phenix

Well No: MW-3
Well Depth from TOC: 19.75
Well Diameter: 2"
Product Level from TOC: None
Water Level from TOC: 9.04'
Screened: 5-19.75'bgs.
Elevation: _____

WEATHER:

Wind: 0-5 mph.

Precip in last 5 days: 0"

CALIBRATION:	<u>Temp°C</u>	<u>EC</u>	<u>pH</u>	<u>Date</u>	<u>Time</u>
Standard:			4.01	2/5/01	1103
			10.01	2/5/01	1105

Before Development:

After Development:

FIELD MEASUREMENTS:

<u>Time</u>	<u>pH</u>	<u>EC</u>	<u>Temp°C</u>	<u>Gallons Removed</u>	<u>Appearance</u>
1345	7.29	1592	18.7	0	Clear
1349	7.15	1586	19.3	1	Silty
1351	7.16	1603	19.4	2	Silty

----- Well dry after 2.1 gallons removed. Infuse with clean water, continue to surge and bail. -----

DEVELOPMENT METHOD: Surge & Bail

FLOATING PRODUCT: None

TOTAL GALLONS REMOVED: 2.1 gal. Formation water, ~ 20 gal. total

RECHARGE RATE (feet/min.): ~0.12 feet/min.

Project No. 00-805		Well No: MW-2			
Project Location: 5115 East Eighth Street, Oakland		Well Depth from TOC: 18.40'			
Date: 2/6/01		Well Diameter: 2"			
Time: 0930		Product Level from TOC: None			
Recorded by: E. Phenix		Water Level from TOC: 6.61			
Purge Time (duration): 6 min.		Screened Interval: 5-18.40' bgs.			
Well Elevation (TOC):					
WEATHER					
Wind: 0-5 mph.		Precip. in last 5 days: 0"			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING					
$(18.40 - 6.61) \times (0.08333)^2 \times 3.14 \times 7.48 = 1.91$ gallons in one well volume					
(Well Depth - Water Level) (Well radius (ft))					
5.73 gallons in 3 well volumes		2.8 gallons removed			
CALIBRATION					
Parameter	Time	Calibration	Before Sampling	Time	After Sampling
pH:					
EC:					
FIELD MEASUREMENTS					
Time	pH	EC	Temp °C	Gallons Removed	Appearance
1018	7.07	1119	15.2	0	Clear
1019	7.03	1102	16.2	1	Clear
1020	7.03	1086	16.6	2	Silty
1024	7.07	1051	17.1	2.8	Silty
	DRY	AFTER	2.8 GALLONS	REMOVED	
Water Level After Purging: 18.40 ft. (TOC)			80% of Original Water Level: 8.97 ft. (TOC)		
Water Level Before Sampling: 12.44 ft. (TOC)					
APPEARANCE OF SAMPLE: Clear					Time: 1610
Bailer:		Type:	GPM:		
Submersible:		Type:	GPM:		
Dedicated:		Type:	GPM:		
DECONTAMINATION METHOD: TSP and Disposable Bailers					
SAMPLE ANALYSIS: TPHg, TPHd, BTEX, MtBE					
LABORATORY: Alpha Analytical					

APPENDIX E
CERTIFIED ANALYTICAL REPORTS



Alpha

Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 1 of 5

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404
Attn: Christine Scheib

Date Printed
02/20/01
Project No:
Project Id: Western Stucco

Order Number	Receipt Date/Time	Client	Client P.O.	Send Via
A01020501	02/02/01 04:25PM	EBA	00-805	MAIL

METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL
--------	-----------	-----------	--------	-------	-----

Order A01020501 consisted of 7 Samples and 35 Tests.

Sample 1 EBA - 8 @ 1.5' See Notes for this Sample at the end of Report.
Sample Type: Soil Sampled By: E.Phenix Sampled: 02/01/01 10:05

TPH As Gasoline	GCFID_5030A	02/12/01	02/12/01	460	mg/kg	1.0
BTEX And MIBE	8020	02/12/01	02/12/01			
Benzene				ND	mg/kg	0.3
Toluene				ND	mg/kg	0.3
Ethylbenzene				ND	mg/kg	1.4
Total Xylenes				ND	mg/kg	3.4
Methyl-t-butyl ether				ND	mg/kg	3.0

TPH As Diesel 8015M 02/09/01 02/09/01 300 mg/kg 1.0

Sample 2 EBA - 8 @ 18' Sample Type: Soil Sampled By: E.Phenix Sampled: 02/01/01 10:55

TPH As Gasoline	GCFID_5030A	02/12/01	02/12/01	2.7	mg/kg	1.0
BTEX And MIBE	8020	02/12/01	02/12/01			
Benzene				ND	mg/kg	.005
Toluene				ND	mg/kg	.005
Ethylbenzene				ND	mg/kg	.005
Total Xylenes				ND	mg/kg	.005
Methyl-t-butyl ether				ND	mg/kg	1.0

PQL - Practical Quantitation Limit ND - None Detected

Bruce L. Gove
Laboratory Director

Date Printed: 02/20/01



Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404
Attn: Christine Scheib

Date Printed
02/20/01

Project No:
Project Id: Western Stucco

Order Number Receipt Date/Time Client Client P.O. Send Via
A01020501 02/02/01 04:25PM EBA 00-805 MAIL

METHOD EXTRACTED TEST DATE RESULT UNITS PQL

Order A01020501 consisted of 7 Samples and 35 Tests.

TPH As Diesel 8015M 02/09/01 02/09/01 ND mg/kg 1.0

Sample 3 EBA - 9 @ 2.5' See Notes for this Sample at the end of Report.
Sample Type: Soil Sampled By: E.Phenix Sampled: 02/01/01 13:00

TPH As Gasoline GCFID_5030A 02/12/01 02/12/01 110 mg/kg 1.0

BTEX And MTBE 8020 02/12/01 02/12/01
Benzene ND mg/kg 0.06
Toluene ND mg/kg 0.06
Ethylbenzene 0.11 mg/kg .005
Total Xylenes ND mg/kg 0.18
Methyl-t-butyl ether ND mg/kg 1.0

TPH As Diesel 8015M 02/09/01 02/09/01 100 mg/kg 1.0

Sample 4 EBA - 9 @ 9.5' See Notes for this Sample at the end of Report.
Sample Type: Soil Sampled By: E.Phenix Sampled: 02/01/01 13:18

TPH As Gasoline GCFID_5030A 02/12/01 02/12/01 62 mg/kg 1.0

BTEX And MTBE 8020 02/12/01 02/12/01
Benzene ND mg/kg 0.03
Toluene ND mg/kg 0.03
Ethylbenzene 0.065 mg/kg .005
Total Xylenes ND mg/kg 0.09
Methyl-t-butyl ether ND mg/kg 1.0

PQL = Practical Quantitation Limit ND - None Detected

Bruce L. Gove
Laboratory Director

Bruce L. Gove
Date Printed: 02/20/01



Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404
Attn: Christine Scheib

Date Printed
02/20/01

Project No:
Project Id: Western Stucco

Order Number Receipt Date/Time Client Client P.O. Send Via
A01020501 02/02/01 04:25PM EBA 00-805 MAIL

	METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL
Order A01020501 consisted of 7 Samples and 35 Tests.						
TPH As Diesel	8015M	02/09/01	02/09/01	29	mg/kg	1.0
Sample 5 EBA - 9 @ 18'						
Sample Type: Soil	Sampled By: E.Phenix		Sampled: 02/01/01 13:38			
TPH As Gasoline	GCFID_5030A	02/12/01	02/12/01	1.4	mg/kg	1.0
BTEX And MTBE	8020	02/12/01	02/12/01			
Benzene				ND	mg/kg	.005
Toluene				ND	mg/kg	.005
Ethylbenzene				ND	mg/kg	.005
Total Xylenes				ND	mg/kg	.005
Methyl-t-butyl ether				ND	mg/kg	1.0
TPH As Diesel	8015M	02/09/01	02/09/01	ND	mg/kg	1.0
Sample 6 EBA - 10 @ 8'						
Sample Type: Soil	Sampled By: E.Phenix		Sampled: 02/01/01 14:55			
TPH As Gasoline	GCFID_5030A	02/12/01	02/12/01	1.5	mg/kg	1.0
BTEX And MTBE	8020	02/12/01	02/12/01			
Benzene				ND	mg/kg	.005
Toluene				ND	mg/kg	.005
Ethylbenzene				ND	mg/kg	.005
Total Xylenes				ND	mg/kg	.005
Methyl-t-butyl ether				ND	mg/kg	1.0

PQL = Practical Quantitation Limit ND - None Detected

Bruce L. Gove
Laboratory Director

Date Printed: 02/20/01



alpha

Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 4 of 5

EBA Wastechнологies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404
Attn: Christine Scheib

Date Printed
02/20/01

Project No:
Project Id: Western Stucco

Order Number	Receipt Date/Time	Client	Client P.O.	Send Via
A01020501	02/02/01 04:25PM	EBA	00-805	MAIL

METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL
--------	-----------	-----------	--------	-------	-----

Order A01020501 consisted of 7 Samples and 35 Tests.

TPH As Diesel	8015M	02/09/01	02/09/01	ND	mg/kg	1.0
---------------	-------	----------	----------	----	-------	-----

Sample 7 EBA - 10 @ 18.5'

See Notes for this Sample at the end of Report.

Sample Type: Soil

Sampled By: E.Phenix

Sampled: 02/01/01 15:20

TPH As Gasoline	GCFID_5030A	02/12/01	02/12/01	190	mg/kg	1.0
-----------------	-------------	----------	----------	-----	-------	-----

BTEX And MTBE

8020	02/12/01	02/12/01				
------	----------	----------	--	--	--	--

Benzene				ND	mg/kg	0.06
Toluene				ND	mg/kg	0.06
Ethylbenzene				ND	mg/kg	0.09
Total Xylenes				ND	mg/kg	0.75
Methyl-t-butyl ether				ND	mg/kg	1.0

TPH As Diesel	8015M	02/09/01	02/09/01	360	mg/kg	1.0
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PQL = Practical Quantitation Limit

ND - None Detected

Bruce L. Gove
Laboratory Director

Date Printed: 02/20/01



Alpha

Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Order Number: A01020501
February 20, 2001

Page 5 of 5

Sample Notes:

Notes for Sample: 1

Analysis of this sample also indicates the presence of hydrocarbons higher in molecular weight than Diesel.

The PQL's for Benzene & Toluene are 60X, Ethylbenzene 280X, Xylenes 680X, MTBE 3-X higher than usual due to matrix interferences.

Notes for Sample: 3

Analysis of this sample also indicates the presence of hydrocarbons higher in molecular weight than Diesel.

The PQL's for Benzene & Toluene are 12X, Xylenes 36X higher than usual due to matrix interferences.

Notes for Sample: 4

The PQL's for Benzene & Toluene are 6X, Xylenes 18X higher than usual due to matrix interferences.

Notes for Sample: 7

This sample contains hydrocarbons in the diesel range which were quantified as gasoline.

The PQL's for Benzene & Toluene are 12X, Ethylbenzene 18X, Xylenes 150X higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 02/20/01



Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

Order #A01020501

e-mail: clientservices@alpha-labs.com

Phone: (707) 468-0401

Fax: (707) 468-5267
Page 1

February 26, 2001

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa, Ca 95404

Quality Control Report

Method	Laboratory Control Sample Recovery %	Laboratory Control Sample Duplicate Recovery %	RPD %	
Blank				
Matrix: Soil				
QC Batch KMS01047				
MTBE	ND	82.7	81.4	1.5
Benzene	ND	94.2	94.5	0.4
Toluene	ND	86.2	85.0	1.5
Ethylbenzene	ND	85.6	85.9	0.4
Xylenes	ND	87.8	89.8	2.2

This batch passes method quality control acceptance criteria.

ND= none detected

Bruce L. Gove, Laboratory Director



Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

QUALITY CONTROL REPORT

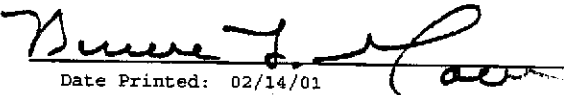
EBA Wastechнологies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404

Order Number	Matrix	Batch Id	Method Blank	LCS Rec. %	Matrix Spike Rec. %	Duplicate Spike Rec. %	RPD %
A01020501	Soil	KMS01047	ND	115.	112.	95.7	15.6

This Batch passes quality control acceptance criteria.

ND = Not Detected at or above limit of detection

Bruce L. Gove
Laboratory Director


Date Printed: 02/14/01



Alpha

Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

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QUALITY CONTROL REPORT

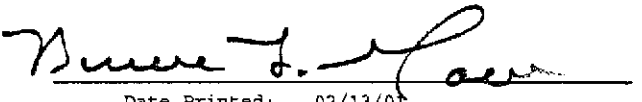
EBA Wastechнологies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404

Order Number:	Matrix	Batch Id	Method Blank	LCS Rec. %	LCSD Rec. %	RPD%
A01020501	Soil	MEG18060-3	ND	110.	114.	3.57

This Batch passes quality control acceptance criteria.

ND = Not Detected at or above limit of detection

Bruce L. Gove
Laboratory Director



Date Printed: 02/13/01



WORK ORDER CHAIN OF CUSTODY RECORD

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 2/1/01 PAGE 1 OF 1

CLIENT'S NAME EBA Wastechologies				PROJECT MANAGER Christine Scheib				ANALYSES SAMPLE CONDITION ON RECEIPT: COLD/ICED? <u>Yes</u> BUBBLES OR AIR SPACE? <u>N/A</u> WERE SAMPLES PRESERVED? <u>A</u>	
STREET ADDRESS 825 Sonoma Ave Santa Rosa CA 95404				PHONE NUMBER (707) 544-0784					
PROJECT NAME Western Stucco				FAX NUMBER (707) 544-0866					
CONTRACT/PURCHASE ORDER/QUOTE NUMBER 00-805				SITE CONTACT Al Avendano					
SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM. Erik Phelix				SAMPLED BY E. Phelix					

SAMPLE NUMBER/IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	SAMPLE TYPE					NO. OF CONTS.	EXPLAIN IRREGULARITIES BELOW				
				LIQ	AIR	SOLID	COMP	GRAB						
EBA-8 @ 1.5'	2/1/01	1005	AD-0205-01-1			X			1	X	X	X	X	
EBA-8 @ 18'		1055	-2			X			1					
EBA-9 @ 2.5'		1300	-3			X			1					
EBA-9 @ 9.5'		1318	-4			X			1					
EBA-9 @ 18'		1338	-5			X			1					
EBA-10 @ 8'		1455	-6			X			1					
EBA-10 @ 18.5'		1520	-7			X			1					
													★ Please confirm M+BE hits with method 8260	

RELINQUISHED BY: Erik Phelix (SIGNATURE)			RECEIVED BY: R. Ornefeld (SIGNATURE)			DATE: 2/2/01	TIME: 3:40	TURN AROUND TIME REQUESTED Normal
RELINQUISHED BY: R. Ornefeld (SIGNATURE)			RECEIVED BY: Sheri Sparks (SIGNATURE)			DATE: 2/2/01	TIME: 16:25	
RELINQUISHED BY: _____ (SIGNATURE)			RECEIVED FOR LABORATORY BY: _____			SAMPLE CONTROL OFFICER		
METHOD OF SHIPMENT			AUTHORIZED BY:			SAMPLE DISPOSITION:		
SPECIAL INSTRUCTIONS						1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES; THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.) 2. SAMPLE TO BE RETURNED TO CLIENT? <input type="checkbox"/> YES <input type="checkbox"/> NO HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT...		
DRIVING TIME		SITE TIME		TOTAL TIME				



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860 Waugh Lane, H-1, Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 1 of 3

EBA Wastechнологies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404
Attn: Christine Scheib

Date Printed
02/22/01

Project No:
Project Id: Western Stucco

Order Number	Receipt Date/Time	Client	Client P.O.	Send Via
A01020801	02/07/01 04:45PM	EBA	00-805	MAIL

METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL
--------	-----------	-----------	--------	-------	-----

Order A01020801 consisted of 4 Samples and 13 Tests.

Sample 1 MW-1 See Notes for this Sample at the end of Report.
 Sample Type: Aqueous Sampled By: E.Phenix Sampled: 02/06/01 15:55

TPH As Gasoline	GCFID_5030A	02/15/01	950	ug/L	50
BTEX And MTBE	8020	02/15/01			
Benzene			ND	ug/L	1.2
Toluene			ND	ug/L	1.2
Ethylbenzene			ND	ug/L	1.5
Total Xylenes			ND	ug/L	2.5
Methyl-t-butyl ether			ND	ug/L	9.0

TPH As Diesel	8015M	02/14/01	02/14/01	260	ug/L	50
---------------	-------	----------	----------	-----	------	----

Sample 2 MW-2
 Sample Type: Aqueous Sampled By: E.Phenix Sampled: 02/06/01 16:10

TPH As Gasoline	GCFID_5030A	02/15/01	2600	ug/L	50
BTEX And MTBE	8020	02/15/01			
Benzene			1.1	ug/L	0.30
Toluene			0.43	ug/L	0.30
Ethylbenzene			0.87	ug/L	0.50
Total Xylenes			1.7	ug/L	.50
Methyl-t-butyl ether			ND	ug/L	1.0

PQL = Practical Quantitation Limit ND - None Detected

Bruce L. Gove
Laboratory Director

Date Printed: 02/22/01



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CHEMICAL EXAMINATION REPORT

Page 2 of 3

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404
Attn: Christine Scheib

Date Printed
02/22/01

Project No:
Project Id: Western Stucco

Order Number	Receipt Date/Time	Client	Client P.O.	Send Via
A01020801	02/07/01 04:45PM	EBA	00-805	MAIL

METHOD	EXTRACTED	TEST DATE	RESULT	UNITS	PQL
--------	-----------	-----------	--------	-------	-----

Order A01020801 consisted of 4 Samples and 13 Tests.

TPH As Diesel	8015M	02/14/01	02/14/01	530	ug/L	50
---------------	-------	----------	----------	-----	------	----

Sample 3 MW-3

See Notes for this Sample at the end of Report.

Sample Type: Aqueous Sampled By: E.Phenix Sampled: 02/06/01 16:25

TPH As Gasoline	GCFID_5030A	02/15/01	340	ug/L	50
-----------------	-------------	----------	-----	------	----

BTEX And MTBE

8020 02/15/01

Benzene	ND	ug/L	0.30
Toluene	ND	ug/L	0.30
Ethylbenzene	ND	ug/L	0.50
Total Xylenes	ND	ug/L	2.0
Methyl-t-butyl ether	ND	ug/L	1.0

TPH As Diesel	8015M	02/14/01	02/14/01	250	ug/L	50
---------------	-------	----------	----------	-----	------	----

Sample 4 Trip Blank

Sample Type: Aqueous Sampled By: E.Phenix Sampled: 02/06/01 09:00

TPH As Gasoline	GCFID_5030A	02/15/01	ND	ug/L	50
-----------------	-------------	----------	----	------	----

PQL = Practical Quantitation Limit

ND - None Detected

Bruce L. Gove
Laboratory Director

Bruce L. Gove
Date Printed: 02/22/01



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Order Number: A01020801

February 22, 2001

Page 3 of 3

Sample Notes:

Notes for Sample: 1

The PQL's for Benzene & Toluene are 4X, Ethylbenzene 3X, Xylenes 5X, and MTBE 9X-higher than usual due to matrix interferences.

Notes for Sample: 3

The PQL for Xylenes is 4X higher than usual due to matrix interferences.

Bruce L. Gove

Laboratory Director

Date Printed: 02/22/01



Alpha

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Order #A01020801

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Fax: (707) 468-5267

Page 1

February 26, 2001

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa, Ca 95404

Quality Control Report

	Method Blank	Laboratory Control Sample Recovery %	Laboratory Control Sample Duplicate Recovery %	RPD %
Matrix: Aqueous				
QC Batch KMS01050				
MTBE	ND	84.3	85.6	1.5
Benzene	ND	101.1	97.9	3.3
Toluene	ND	92.8	89.0	4.3
Ethylbenzene	ND	90.4	87.0	3.8
Xylenes	ND	100.2	92.5	8.1

This batch passes method quality control acceptance criteria.

ND= none detected

Bruce L. Gove, Laboratory Director



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QUALITY CONTROL REPORT

EBA Wastechнологies
825 Sonoma Ave. Suite C
Santa Rosa, CA 95404

Order Number:

A01020801

	Matrix	Batch Id	Method Blank	LCS Rec. %	LCSD Rec. %	RPD%
TPH As Diesel	Aqueous	MEG18065	ND	112.	110.	1.80
TPH As Gasoline	Aqueous	KMS01050	ND	101.	99.1	2.08

This Batch passes quality control acceptance criteria.

ND = Not Detected at or above limit of detection

Bruce L. Gove
Laboratory Director

Date Printed: 02/22/01



WORK ORDER CHAIN OF CUSTODY RECORD

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 2/6/01 PAGE 1 OF 1

CLIENT'S NAME EBA Wastechнологies				PROJECT MANAGER Christine Scheib				ANALYSES SAMPLE CONDITION ON RECEIPT: COLD/ICED? <u>Yes</u> BUBBLES OR AIR SPACE? <u>NO</u> WERE SAMPLES PRESERVED? <u>Yes</u>	
STREET ADDRESS 825 Sonoma Ave. Santa Rosa CA 95404				PHONE NUMBER (707) 544-0784					
PROJECT NAME Western Stucco				FAX NUMBER (707) 544-0866					
CONTRACT/PURCHASE ORDER/QUOTE NUMBER 00-805				SITE CONTACT Al Avendano					
SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM Eut Phenix				SAMPLED BY E. Phenix					

SAMPLE NUMBER/IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	SAMPLE TYPE					NO. OF CONTS.	EXPLAIN IRREGULARITIES BELOW	
				L/D	AIR	SOLID	COMP	GRAB			
MW-1	2/6/01	1555	AGI-0208-01-1	X					4	X X X X	* Please confirm MBE hits with method 8260 * Please attempt TPHd analysis on MW-1 & MW-3; not enough sample to fill amber
MW-2	↓	1610	2	X					5	X X X X	
MW-3	↓	1625	3	X					5	X X X X	
Trip Blank	↓	0900	4	X					1	X	

RELINQUISHED BY: (SIGNATURE) Eut Phenix		RECEIVED BY: (SIGNATURE) [Signature]		DATE	TIME	TURN AROUND TIME REQUESTED
RELINQUISHED BY: (SIGNATURE) [Signature]		RECEIVED BY: (SIGNATURE) Sherril Speaks		2/6/01	13:15	
RELINQUISHED BY: (SIGNATURE)		RECEIVED FOR LABORATORY BY:		DATE	TIME	Normal
METHOD OF SHIPMENT		AUTHORIZED BY:		2-7-01	16:45	
SPECIAL INSTRUCTIONS		SAMPLE CONTROL OFFICER		SAMPLE DESPOSITION:		
DRIVING TIME		SITE TIME		1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES. THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.) 2. SAMPLE TO BE RETURNED TO CLIENT? <input type="checkbox"/> YES <input type="checkbox"/> NO HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT PICKING UP HAZARDOUS WASTES MAY BE ASSESSED AN APPROPRIATE FEE.		
TOTAL TIME						



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EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa CA, 95404

Project: Western Stucco
Project Number: 00-805
Project Manager: Christine Scheib

Reported:
02-Mar-01 13:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EBA-11@3'	A102075-01	Soil	20-Feb-01 11:30	21-Feb-01 07:45
EBA-11@7'	A102075-02	Soil	20-Feb-01 11:40	21-Feb-01 07:45
EBA-11@17'	A102075-03	Soil	20-Feb-01 12:10	21-Feb-01 07:45

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheryl Speaks

Sheryl L. Speaks For Karen A. Daly, Project Manager

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EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa CA, 95404

Project: Western Stucco
Project Number: 00-805
Project Manager: Christine Scheib

Reported:
02-Mar-01 13:19

TPH as Diesel by EPA Method 8015 Modified

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EBA-11@3' (A102075-01) Soil Sampled: 20-Feb-01 11:30 Received: 21-Feb-01 07:45									
TPH as Diesel	2000	1.0	mg/kg	1	AB12807	27-Feb-01	28-Feb-01	EPA 8015DRO	
Surrogate: 1,4-Bromofluorobenzene		170 %	0-200		"	"	"	"	
EBA-11@7' (A102075-02) Soil Sampled: 20-Feb-01 11:40 Received: 21-Feb-01 07:45									
TPH as Diesel	360	1.0	mg/kg	1	AB12807	27-Feb-01	28-Feb-01	EPA 8015DRO	
Surrogate: 1,4-Bromofluorobenzene		110 %	0-200		"	"	"	"	
EBA-11@17' (A102075-03) Soil Sampled: 20-Feb-01 12:10 Received: 21-Feb-01 07:45									
TPH as Diesel	160	1.0	mg/kg	1	AB12807	27-Feb-01	28-Feb-01	EPA 8015DRO	
Surrogate: 1,4-Bromofluorobenzene		74 %	0-200		"	"	"	"	

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Sheryl Speaks

Sheryl L. Speaks For Karen A. Daly, Project Manager



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e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa CA, 95404

Project: Western Stucco
Project Number: 00-805
Project Manager: Christine Scheib

Reported:
02-Mar-01 13:19

TPH as Gasoline by GCFID/5030 and MBTXE by 8020

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EBA-11@3' (A102075-01) Soil Sampled: 20-Feb-01 11:30 Received: 21-Feb-01 07:45									
TPH as Gasoline	ND	1.0	mg/kg	1	AB12707	26-Feb-01	26-Feb-01	8015GRO/8020	D-12
Benzene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	"
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate: 1,4-Bromofluorobenzene		%	0-200	"	"	"	"	"	"

EBA-11@7' (A102075-02) Soil Sampled: 20-Feb-01 11:40 Received: 21-Feb-01 07:45									
TPH as Gasoline	ND	1.0	mg/kg	1	AB12707	26-Feb-01	26-Feb-01	8015GRO/8020	D-12
Benzene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	"
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate: 1,4-Bromofluorobenzene		%	0-200	"	"	"	"	"	"

EBA-11@17' (A102075-03) Soil Sampled: 20-Feb-01 12:10 Received: 21-Feb-01 07:45									
TPH as Gasoline	ND	1.0	mg/kg	1	AB12707	26-Feb-01	26-Feb-01	8015GRO/8020	D-12
Benzene	ND	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0050	"	"	"	"	"	"	"
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	"
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
Surrogate: 1,4-Bromofluorobenzene		%	0-200	"	"	"	"	"	"

Alpha Analytical Laboratories, Inc.

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Sheryl Speaks

Sheryl L. Speaks For Karen A. Daly, Project Manager



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860 Waugh Lane, H-1, Ukiah, California 95482

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EBA Wastechologies 825 Sonoma Ave. Suite C Santa Rosa CA, 95404	Project: Western Stucco Project Number: 00-805 Project Manager: Christine Scheib	Reported: 02-Mar-01 13:19
---	--	------------------------------

TPH as Diesel by EPA Method 8015 Modified - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB12807 - EPA 3550A										
Blank (AB12807-BLK1)										
Prepared: 27-Feb-01 Analyzed: 28-Feb-01										
TPH as Diesel	ND	1.0	mg/kg							
Surrogate: 1,4-Bromofluorobenzene	7.6		"	10		76	0-200			
LCS (AB12807-BS1)										
Prepared: 27-Feb-01 Analyzed: 28-Feb-01										
TPH as Diesel	38	1.0	mg/kg	40		95	70-130			
Surrogate: 1,4-Bromofluorobenzene	7.5		"	10		75	0-200			
LCS Dup (AB12807-BSD1)										
Prepared: 27-Feb-01 Analyzed: 28-Feb-01										
TPH as Diesel	38	1.0	mg/kg	40		95	70-130	0.0	200	
Surrogate: 1,4-Bromofluorobenzene	6.8		"	10		68	0-200			

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Sheryl Speaks

Sheryl L. Speaks For Karen A. Daly, Project Manager



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860 Waugh Lane, H-1, Ukiah, California 95482

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EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa CA, 95404

Project: Western Stucco
Project Number: 00-805
Project Manager: Christine Scheib

Reported:
02-Mar-01 13:19

TPH as Gasoline by GCFID/5030 and MBTXE by 8020 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AB12707 - EPA 5030 Soil GC

Blank (AB12707-BLK1)

Prepared & Analyzed: 26-Feb-01

TPH as Gasoline	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 1,4-Bromofluorobenzene	4.67		"	4.99		93.6	0-200			

LCS (AB12707-BS1)

Prepared & Analyzed: 26-Feb-01

TPH as Gasoline	ND	1.0	mg/kg				85-129			
Benzene	0.608	0.0050	"	0.500		122	71-143			
Toluene	0.602	0.0050	"	0.500		120	78-128			
Ethylbenzene	0.669	0.0050	"	0.500		134	72-128			A-01
Xylenes (total)	1.83	0.0050	"	1.50		122	76-134			
Methyl tert-butyl ether	ND	1.0	"	0.500		125	62-125			
Surrogate: 1,4-Bromofluorobenzene	5.29		"	4.99		106	0-200			

LCS (AB12707-BS2)

Prepared & Analyzed: 26-Feb-01

TPH as Gasoline	18.0	1.0	mg/kg	19.2		93.8	85-129			
Benzene	ND	0.0050	"				71-143			
Toluene	ND	0.0050	"				78-128			
Ethylbenzene	ND	0.0050	"				72-128			
Xylenes (total)	ND	0.0050	"				76-134			
Methyl tert-butyl ether	ND	1.0	"				62-125			
Surrogate: 1,4-Bromofluorobenzene	5.67		"	4.99		114	0-200			

Matrix Spike (AB12707-MS1)

Source: A102038-17

Prepared & Analyzed: 26-Feb-01

TPH as Gasoline	ND	1.0	mg/kg		ND		85-129			
Benzene	0.534	0.0050	"	0.500	ND	107	71-143			
Toluene	0.526	0.0050	"	0.500	ND	105	78-128			
Ethylbenzene	0.583	0.0050	"	0.500	ND	117	72-128			
Xylenes (total)	1.60	0.0050	"	1.50	ND	107	76-134			

Alpha Analytical Laboratories, Inc.

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Sheryl Speaks

Sheryl L. Speaks For Karen A. Daly, Project Manager



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860 Waugh Lane, H-1, Ukiah, California 95482

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EBA Wastechologies 825 Sonoma Ave. Suite C Santa Rosa CA, 95404	Project: Western Stucco Project Number: 00-805 Project Manager: Christine Scheib	Reported: 02-Mar-01 13:19
---	--	------------------------------

TPH as Gasoline by GCFID/5030 and MBTXE by 8020 - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AB12707 - EPA 5030 Soil GC

Matrix Spike (AB12707-MS1)		Source: A102038-17		Prepared & Analyzed: 26-Feb-01						
Methyl tert-butyl ether	ND	1.0	mg/kg	0.500	ND	108	85-125			
Surrogate: 1,4-Bromofluorobenzene	4.71		"	4.99		94.4	0-200			

Matrix Spike (AB12707-MS2)		Source: A102038-17		Prepared & Analyzed: 26-Feb-01						
TPH as Gasoline	16.6	1.0	mg/kg	19.2	ND	86.5	85-129			
Benzene	ND	0.0050	"		ND		71-143			
Toluene	ND	0.0050	"		ND		78-128			
Ethylbenzene	ND	0.0050	"		ND		72-128			
Xylenes (total)	ND	0.0050	"		ND		76-134			
Methyl tert-butyl ether	ND	1.0	"		ND		62-125			
Surrogate: 1,4-Bromofluorobenzene	4.69		"	4.99		94.0	0-200			

Matrix Spike Dup (AB12707-MSD1)		Source: A102038-17		Prepared & Analyzed: 26-Feb-01						
TPH as Gasoline	ND	1.0	mg/kg		ND		85-129		19	
Benzene	0.569	0.0050	"	0.500	ND	114	71-143	6.35	20	
Toluene	0.556	0.0050	"	0.500	ND	111	78-128	5.55	20	
Ethylbenzene	0.615	0.0050	"	0.500	ND	123	72-128	5.34	20	
Xylenes (total)	1.68	0.0050	"	1.50	ND	112	76-134	4.88	20	
Methyl tert-butyl ether	ND	1.0	"	0.500	ND	112	62-125	4.36	200	
Surrogate: 1,4-Bromofluorobenzene	5.05		"	4.99		101	0-200			

Matrix Spike Dup (AB12707-MSD2)		Source: A102038-17		Prepared & Analyzed: 26-Feb-01						
TPH as Gasoline	16.4	1.0	mg/kg	19.2	ND	85.4	85-200	1.21	200	
Benzene	ND	0.0050	"		ND		71-143		17	
Toluene	ND	0.0050	"		ND		78-128		17	
Ethylbenzene	ND	0.0050	"		ND		72-128		18	
Xylenes (total)	ND	0.0050	"		ND		76-134		16	
Methyl tert-butyl ether	ND	1.0	"		ND		62-125		26	
Surrogate: 1,4-Bromofluorobenzene	4.64		"	4.99		93.0	0-200			

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Sheryl Speaks

Sheryl L. Speaks For Karen A. Daly, Project Manager



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Alpha Analytical Laboratories Inc.

860 Waugh Lane, H-1, Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa CA, 95404

Project: Western Stucco
Project Number: 00-805
Project Manager: Christine Scheib

Reported:
02-Mar-01 13:19

Notes and Definitions

- A-01
- D-12 This sample contains hydrocarbons in the diesel range which were quantified as gasoline.
- 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

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheryl Speaks

Sheryl L. Speaks For Karen A. Daly, Project Manager



WORK ORDER CHAIN OF CUSTODY RECORD

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 2/20/01 PAGE 1 OF 1

CLIENT'S NAME EBA Wastechologies				PROJECT MANAGER Christine Scheib				ANALYSES COLD/ICED? <u>yes</u> BUBBLES OR AIR SPACE? <u>N/A</u> WERE SAMPLES PRESERVED? <u>LA</u>	
STREET ADDRESS 825 Sonoma Ave Santa Rosa CA 95404				PHONE NUMBER 707-544-0784					
PROJECT NAME Western Stucco				FAX NUMBER 707-544-0866					
CONTRACT/PURCHASE ORDER/QUOTE NUMBER 00-805				SITE CONTACT Al Avendano					
SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM. Erik Phelan						SAMPLED BY E. Phelan		TPH TPA GTEX MTBE 3 (8260)	

SAMPLE NUMBER/IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	SAMPLE TYPE					NO. OF CONTS.	EXPLAIN IRREGULARITIES BELOW	
				LQ	AIR	SOLID	COMP	GRAB			
EBA-11@3'	2/20/01	1130	A102075-1			X			1	XXXXX	
EBA-11@7'	↓	1140	-2			X			1	XXXXX	
EBA-11@17'	↓	1210	-3			X			1	XXXXX	

* Please confirm MTBE hits by method 8260

RELINQUISHED BY: (SIGNATURE) Erik Phelan		RECEIVED BY: (SIGNATURE) Shari Speaks		DATE	TIME	TURN AROUND TIME REQUESTED Normal
RELINQUISHED BY: (SIGNATURE)		RECEIVED BY: (SIGNATURE)		DATE	TIME	
RELINQUISHED BY: (SIGNATURE)		RECEIVED FOR LABORATORY BY:		SAMPLE CONTROL OFFICER		
METHOD OF SHIPMENT		AUTHORIZED BY:		SAMPLE DISPOSITION:		
SPECIAL INSTRUCTIONS				1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES; THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.) 2. SAMPLE TO BE RETURNED TO CLIENT? <input type="checkbox"/> YES <input type="checkbox"/> NO HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT...		
DRIVING TIME	SITE TIME	TOTAL TIME				



alpha

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CHEMICAL EXAMINATION REPORT

Page 1 of 6

EBA Wastechologies
825 Sonoma Ave. Suite C
Santa Rosa CA, 95404
Attn: Christine Scheib

Report Date: 03/08/01 15:06
Project No: 00-805
Project ID: Western Stucco

Order Number
A103019

Receipt Date/Time
03/01/2001 12:30

Client Code
EBA

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OW-1	A103019-01	Water	02/28/01 12:00	03/01/01 12:30

Sheryl Speaks

Sheryl L. Speaks
Project Manager

3/8/01



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Attn: Christine Scheib

Report Date: 03/08/01 15:06
Project No: 00-805
Project ID: Western Stucco

<u>Order Number</u> A103019	<u>Receipt Date/Time</u> 03/01/2001 12:30	<u>Client Code</u> EBA	<u>Client PO/Reference</u>
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Alpha Analytical Laboratories, Inc.

METHOD	QC BATCH	EXTRACTED	TEST DATE	RESULT	PQL	NOTE
OW-1 (A103019-01)		Sample Type: Water		Sampled: 02/28/01 12:00		
TPH as Diesel by EPA Method 8015 Modified						
TPH as Diesel	EPA 8015DRO	AC10614	03/06/01	03/06/01	8200 ug/l	5
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	72.0 %	0-200
TPH as Gasoline by GCFID/5030 and MBTXE by 8020						
TPH as Gasoline	8015GRO/8020	AC10505	03/02/01	03/07/01	2400 ug/l	5
Benzene	"	"	"	"	ND "	1.2
Toluene	"	"	"	"	ND "	1.2
Ethylbenzene	"	"	"	"	ND "	1.5
Xylenes (total)	"	"	"	"	ND "	3.5
Methyl tert-butyl ether	"	"	"	"	ND "	9.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	92.6 %	59-130

Sheryl Speaks

Sheryl L. Speaks
Project Manager

3/8/01



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CHEMICAL EXAMINATION REPORT

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825 Sonoma Ave. Suite C
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Attn: Christine Scheib

Report Date: 03/08/01 15:06
Project No: 00-805
Project ID: Western Stucco

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A103019	03/01/2001 12:30	EBA	

TPH as Diesel by EPA Method 8015 Modified - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC10614 - EPA 3510B										
Blank (AC10614-BLK1) Prepared & Analyzed: 03/06/01										
TPH as Diesel	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	358		"	510		70.2	0-200			
LCS (AC10614-BS1) Prepared & Analyzed: 03/06/01										
TPH as Diesel	2010	50	ug/l	2000		100	70-130			
Surrogate: 1,4-Bromofluorobenzene	383		"	510		75.1	0-200			
LCS Dup (AC10614-BSD1) Prepared & Analyzed: 03/06/01										
TPH as Diesel	1730	50	ug/l	2000		86.5	70-130	15.0	200	
Surrogate: 1,4-Bromofluorobenzene	240		"	510		47.1	0-200			

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3/8/01



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Report Date: 03/08/01 15:06
Project No: 00-805
Project ID: Western Stucco

Order Number: A103019 Receipt Date/Time: 03/01/2001 12:30 Client Code: EBA Client PO/Reference:

TPH as Gasoline by GCFID/5030 and MBTXE by 8020 - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Flag
Batch AC10505 - EPA 5030 Water GC										
Blank (AC10505-BLK1) Prepared & Analyzed: 03/02/01										
TPH as Gasoline	ND	50	ug/l							
Benzene	ND	0.30	"							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 1,4-Bromofluorobenzene	26.3		"	23.0		114	59-130			
LCS (AC10505-BS1) Prepared & Analyzed: 03/02/01										
Benzene	2.36	0.30	ug/l	2.50		94.4	70-127			
Toluene	2.36	0.30	"	2.50		94.4	80-115			
Ethylbenzene	2.62	0.50	"	2.50		105	75-115			
Xylenes (total)	7.56	0.50	"	7.50		101	75-115			
Methyl tert-butyl ether	2.14	1.0	"	2.50		85.6	55-122			
Surrogate: 1,4-Bromofluorobenzene	22.0		"	20.0		110	59-130			
LCS (AC10505-BS2) Prepared & Analyzed: 03/02/01										
TPH as Gasoline	ND	50	ug/l	40.0		102	65-124			
Surrogate: 1,4-Bromofluorobenzene	22.5		"	20.0		112	59-130			
LCS Dup (AC10505-BSD1) Prepared & Analyzed: 03/02/01										
Benzene	2.30	0.30	ug/l	2.50		92.0	70-127	2.58	16	
Toluene	2.28	0.30	"	2.50		91.2	80-115	3.45	14	
Ethylbenzene	2.51	0.50	"	2.50		100	75-115	4.29	13	
Xylenes (total)	7.02	0.50	"	7.50		93.6	75-115	7.41	15	
Methyl tert-butyl ether	2.17	1.0	"	2.50		86.8	55-122	1.39	13	
Surrogate: 1,4-Bromofluorobenzene	20.5		"	20.0		102	59-130			

Sheryl Speaks

Sheryl L. Speaks
Project Manager

3/8/01



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Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A103019

03/01/2001 12:30

EBA

TPH as Gasoline by GCFID/5030 and MBTXE by 8020 - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Flag
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Batch AC10505 - EPA 5030 Water GC

LCS Dup (AC10505-BSD2)

Prepared & Analyzed: 03/02/01

TPH as Gasoline	ND	50	ug/l	40.0		96.0 65-124	5.57	14	
Surrogate: 1,4-Bromofluorobenzene	21.9		"	20.0		110 59-130			

Sheryl Speaks

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3/8/01



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Project No: 00-805
Project ID: Western Stucco

Order Number
A103019

Receipt Date/Time
03/01/2001 12:30

Client Code
EBA

Client PO/Reference

Notes and Definitions

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
PQL Practical Quantitation Limit



WORK ORDER CHAIN OF CUSTODY RECORD

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DATE 2/28/01 PAGE 1 OF 1

CLIENT'S NAME EBA Wastechologies				PROJECT MANAGER Christine Scheib				ANALYSES 	SAMPLE CONDITION ON RECEIPT:	
STREET ADDRESS 825 Sonoma Ave.		CITY Santa Rosa	STATE CA	ZIP 95404	PHONE NUMBER 707-544-0784				COLD/ICED? <u>Yes</u>	
PROJECT NAME Western Stucco				FAX NUMBER 707-544-0866			BUBBLES OR AIR SPACE? <u>NO</u>			
CONTRACT/PURCHASE ORDER/QUOTE NUMBER 00-805				SITE CONTACT Al Avendano			WERE SAMPLES PRESERVED? <u>Yes</u>			
SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM: Erik Phenix				SAMPLED BY E. Phenix						

SAMPLE NUMBER/IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	SAMPLE TYPE					NO. OF CONTS.	EXPLAIN IRREGULARITIES BELOW	
				LQ	AIR	SOLID	COMP	CRAB			
DW-1	2/28/01	1200	A103019-1	X					5	XXXX	

RELINQUISHED BY: Erik Phenix		RECEIVED BY: R. Whayfeld		DATE: 3/1/01	TIME: 11:15	TURN AROUND TIME REQUESTED * 5 DAY *
RELINQUISHED BY: R. Whayfeld		RECEIVED BY: Sheri Sparks		DATE: 3/1/01	TIME: 12:30	
RELINQUISHED BY: (SIGNATURE)		RECEIVED FOR LABORATORY BY:		SAMPLE CONTROL OFFICER		
METHOD OF SHIPMENT		AUTHORIZED BY:		SAMPLE DESPOSITION:		
SPECIAL INSTRUCTIONS		DRIVING TIME		SITE TIME		TOTAL TIME

1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES. THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.)

2. SAMPLE TO BE RETURNED TO CLIENT? YES NO

HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT PICKING UP HAZARDOUS WASTES MAY BE ASSESSED AN APPROPRIATE FEE.