

QUARTERLY GROUNDWATER MONITORING AND SAMPLING REPORT

ALBANY HILL MINI MART ALBANY, CALIFORNIA

Prepared for:

Mr. Mohinder S. & Dr. Joginder K. Sikand 800 San Pablo Avenue Albany, California

August 31, 2000

ADVANCED ASSESSMENT AND REMEDIATION SERVICES



2380 Salvio Street, Suite 202 Concord, CA 94520 Phone: (925) 363-1999 Fax: (925) 363-1998 e-mail: aars@ccnet.com



ADVANCED ASSESSMENT AND REMEDIATION SERVICES (AARS)

2380 SALVIO STREET, SUITE 202 CONCORD, CALIFORNIA 94520-2137 TEL: (925) 363-1999 FAX: (925) 363-1998

e-mail: aars@ccnet.com

August 31, 2000

Ms. Eva Chu Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Subject:

Quarterly Groundwater Monitoring and Sampling Report for Albany Hill Mini Mart, 800 San Pablo Avenue, Albany, California

Dear Ms. Chu:

The enclosed report presents the results and findings of the August 2000, quarterly groundwater monitoring and sampling for the above-referenced facility.

Should you have any questions regarding the report please contact Tridib Guha at (925) 363-1999.

Sincerely,

Advanced Assessment and Remediation Services

Tridib K. Guha, R.G., R.E.A.

Tidel K. R.

Principal

cc:

Mr. Mohinder Sikand & Dr. Joginder Sikand, Albany, CA

AHMMQ4.RPT

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QUARTERLY GROUNDWATER MONITORING AND SAMPLING REPORT

For

Albany Hill Mini Mart 800 San Pablo Avenue Albany, California

1.0 INTRODUCTION

This report presents the results and findings of the August 2000, quarterly groundwater monitoring and sampling performed at 800 San Pablo Avenue, Albany, California. This report is intended to fulfill quarterly self-monitoring requirements and to establish a groundwater monitoring history for the site. In this sampling event, the groundwater samples were analyzed by North State Environmental Laboratory of South San Francisco. A site vicinity map is shown in Figure 1.

2.0 GROUNDWATER MONITORING WELLS

This section presents the water level monitoring, field observations, sampling and analysis procedures, as well as the analytical results. The location of the monitoring wells is presented in Figure 2. The work and related field sampling activities were conducted in accordance with the guidelines and requirements of the Alameda County Environmental Health Department (ACEHD) and the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB).

2.1 Groundwater Level Monitoring and Surveying

Groundwater levels in each well were measured to the nearest 0.01 foot from the top of the PVC casing, using an electronic sounder tape. A groundwater surface elevation map, based on interpretation of groundwater level measurements taken on August 3, 2000, and survey data is presented in Figure 3. The survey data and water level measurements are presented in Table 1.

2.2 Field Observations

The purged water from monitoring, MW-1, MW-2 and MW-3 were clear initially and with continual purging the water turned turbid. However, water samples collected at the time of sampling were clear. No floating product was observed in the groundwater samples from all three monitoring wells. Sheen was observed in groundwater samples from all three monitoring wells. In addition petroleum odor was noticed in the groundwater samples from all three monitoring wells.

2.3 Sampling and Analysis Procedures

Groundwater samples were collected on August 3, 2000, following water level measurements. Samples were analyzed by North State Environmental Laboratory of South San Francisco, California which is certified by the California Department of Health Services (DHS) to perform the specified analyses.

Before purging, water levels were measured in all wells with an electronic sounder tape. Purging preceded sampling in order to ensure collection of non-stagnant water. A minimum of three casing volumes were removed before sampling the wells MW-1, MW-2 and MW-3. The purged water was monitored for temperature, pH, and conductivity. Purging was considered complete when these parameters had stabilized. The wells were sampled after 90 percent recovery or greater. The groundwater monitoring well purge/sampling worksheets are presented Appendix A.

To prevent potential cross-contamination, all measuring, purging and sampling equipment was washed in an Alconox detergent solution, rinsed with tap water, and rinsed finally with distilled water between wells.

The sampling procedure for each monitoring well involved extracting well water with a clean PVC bailer on a clean nylon cord. Groundwater collected for analysis of Total Petroleum Hydrocarbon as gasoline (TPHg) and Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX), Methyl Tertiary Butyl Ether (MTBE) was decanted into two 40-milliliter volatile organic analysis vials with Teflon-lined septa. Groundwater collected for analysis of Total Petroleum Hydrocarbon as diesel (TPHd) was decanted into one 1-liter amber glass bottles. Samples to be analyzed for TPHg/BTEX/MTBE were preserved using hydrochloric acid to a pH of 2.0. All samples were labeled and placed in an iced cooler, along with the chain-of-custody document (Appendix B). Samples transported to the laboratory were analyzed within the specified holding time.

Groundwater produced during purging and sampling was contained in 55-gallon steel drums. The drummed water was labelled with the source (i.e. well number) and date.

2.4 Analytical Methods

Samples were analyzed for TPHg by Modified EPA SW-846 Methods 5030/8015 modified, for TPHd by EPA Methods 3510/8015 modified, and for BTEX/MTBE by EPA SW-846 Methods 8020.

A summary of the analytical results of groundwater samples from the monitoring wells is presented in Table 2. The certified analytical reports for this sampling events are included in Appendix B.

3.0 INTERPRETATION OF RESULTS

The results of water level measurements and groundwater sampling are discussed in the following sections.

3.1 Groundwater Elevations and Gradients

A relative groundwater elevation contours for August 3, 2000, is presented in Figure 3. The flow direction, based on groundwater level data, was toward the southeast with an average hydraulic gradient of 0.02 foot per foot for this monitoring period. The average depth to stabilized groundwater in these wells was approximately 11 feet below ground surface.

3.2 Analytical Results

The three previous sampling events, laboratory work was performed by Priority Environmental Labs

groundwater samples were analyzed by North State Environmental Laboratory of South San Francisco. The analytical results for groundwater samples from monitoring wells (MW-1, MW-2 and MW-3 indicated that the concentrations of MTBE were detected at 360, 3300 and 11000 parts per billion (ppb) respectively. Aso, the detection of MTBE was confirmed by analyzing groundwater samples form MW-3 using CAMS method \$260. Groundwater samples from all three monitoring wells were found to contain TPHg ranging from 460 to 1200 ppb; benzene concentrations ranging from 79 to 220 ppb; toluene concentrations ranging from 3 to 43 ppb; ethylbenzene concentrations ranging from 35 to 43 ppb; and xylenes concentrations ranging from 8 to 160 ppb. TPHd was detected in all three groundwater samples, concentrations ranging from 70 to 300 ppb. However, laboratory reported samples do not match diesel pattern. Figure 4 shows the distribution of dissolved-phase petroleum hydrocarbons at the site.

4.0 CONLUSIONS AND RECOMMENDATIONS

Since, the analytical results for this sampling event detected concentration of MTBE as well as TPHg and BTEX constituents in groundwater at a higher concentrations than previous sampling events in all three monitoring wells. Therefore, the site is subject to further site characterization. Upon receiving direction from ACEHD will proceed for site characterization.

5.0 CERTIFICATION

The information provided in this report is based on the groundwater sampling activities conducted at the site. All data presented in this report is believed to be factual and accurate, unless proven otherwise. Any conclusions or recommendations provided within are based on our expertise and experience conducting work for a similar nature.

Advanced Assessment and Remediation Services

Tridib K. Guha, R.G. 5836

Licht K. A

TABLE 1: SURVEY AND WATER LEVEL MONITORING DATA Albany Hill Mini Mart 800 San Pablo Avenue Albany, California Product Groundwater Date of Top of Casing Depth to Groundwater Measurement Elevation (Feet) Thickness Elevation (Feet - Relative) (Feet) (Feet - Relative) 08-06-99 11.95 0.00 89.73 101.68 0.00 88.96 11-05-99 12.72 101.68 10.34 0.00 91.34 02-07-00 101.68 05-05-00 101.68 10.59 0.00 91.09 89.93 0.00 08-03-00 101.68 11.75 0.00 90.74 08-06-99 101.57 10.83

11.66

9.23

9.54

10.69

10.58

11.39

9.05

9.29

10.43

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

89.91

92.34

92.03

90.88

89.75

88.94

91.28

91.04

89.90

Note: A bench mark, with an assumed elevation of 100.00 feet (Above Mean Sea Level), is located at the corner of Washington Avenue and San Pablo Avenue. The bench mark is the top of the southeast bolt (painted white) in the street signal light base; all well elevations are relative to this. The elevations at each well were taken on the top of the well casing.

Well No.

MW-1

MW-2

MW-3

11-05-99

02-07-00

05-05-00

08-03-00

08-06-99

11-05-99

02-07-00

05-05-00

08-03-00

101.57

101.57

101.57

101.57

100.33

100.33

100.33

100.33

100.33

TABLE 2: SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLING Albany Hill Mini Mart

800 San Pablo Avenue Alhany California

			Alba	ny, Califo	rnia			
Sample ID	Date of Sampling	TPHg (μg/L)	(μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	TPHd µg/L
MW-1 GW	08/06/99	1500	ND	4.3	2.9	9.1	_28	1200
	08/06/99	Polynucle	ear Aromatic		on Analyses etection lim	by EPA method (it 1.0 μg/L	610 were nor	1-detect with
	11/05/99	1800	ND	5.1	3.2	8.9	33	1400
	02/07/00	1100	ND	3.3	1.9	5.6	21	890
	05/07/00	970	ND	2.9	1.7	4,9	18	650
	08/03/00	1200	3960	190	43	41	160	270*
MW-2 GW	08/06/99	ND	ND	ND	ND	ND	ND	340
	11/05/99	ND	ND	ND	ND	ND	0.7	420
	02/07/00	ND	ND	ND	ND	ND	0.6	310
	05/05/00	ND.	ND	ND	ND	ND	ND	280
	08/03/00	460	.33 00 4	79	3	43	8	70*
MW-3 GW	08/06/99	ND	ND	ND	ND	ND	ND	ND
	11/05/99	92	ND	ND	ND	0.6	1.7	54
	02/07/00	120	ND	ND	0.6	0.8	2.2	71
***	05/05/00	100	ND	ND	, ND	0.7	1.9	68
	08/03/00	910	Ame (220	9	35	16	300*
RL	08/07/00	50	0.5	0.5	0.5	0.5	1.0	50

Notes:

ND-Not Detected RL-Reporting Limit NA-Not Analyzed

 $\mu g/L$ -

Microgram per liter (parts per billion)

TPHg-

Total petroleum hydrocarbon as gasoline (EPA method modified 8015)

TPHd-MTBE- Total petroleum hydrocarbon as diesel (EPA method modified 8015)

Methyl Tertiary Butyl Ether (EPA method 8020) Benzene, toluene, ethylbenzene, and total xylenes (EPA method 8015)

PAH

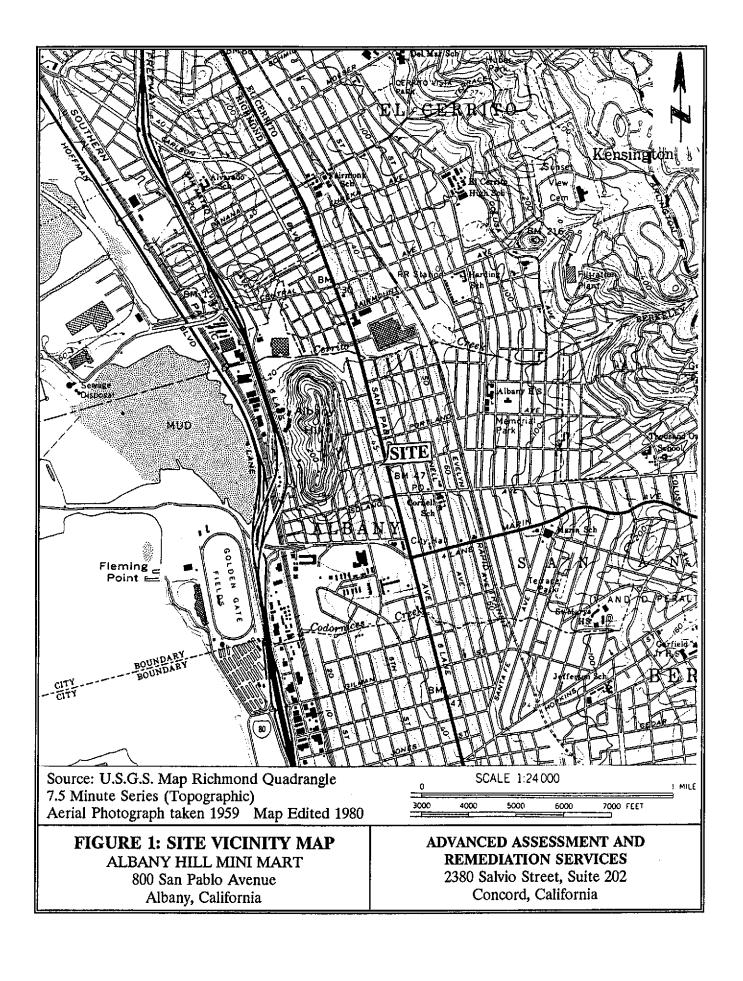
Polynuclear Aromatic Hydrocarbon (EPA method 610)

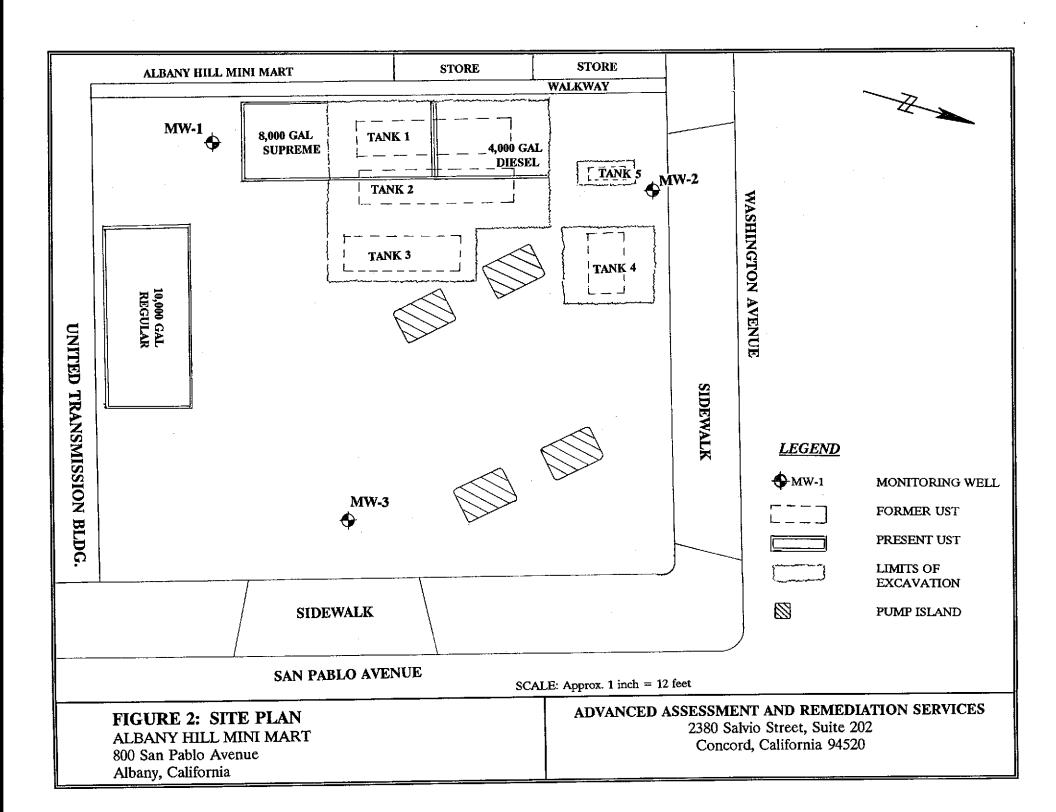
Does not match diesel pattern

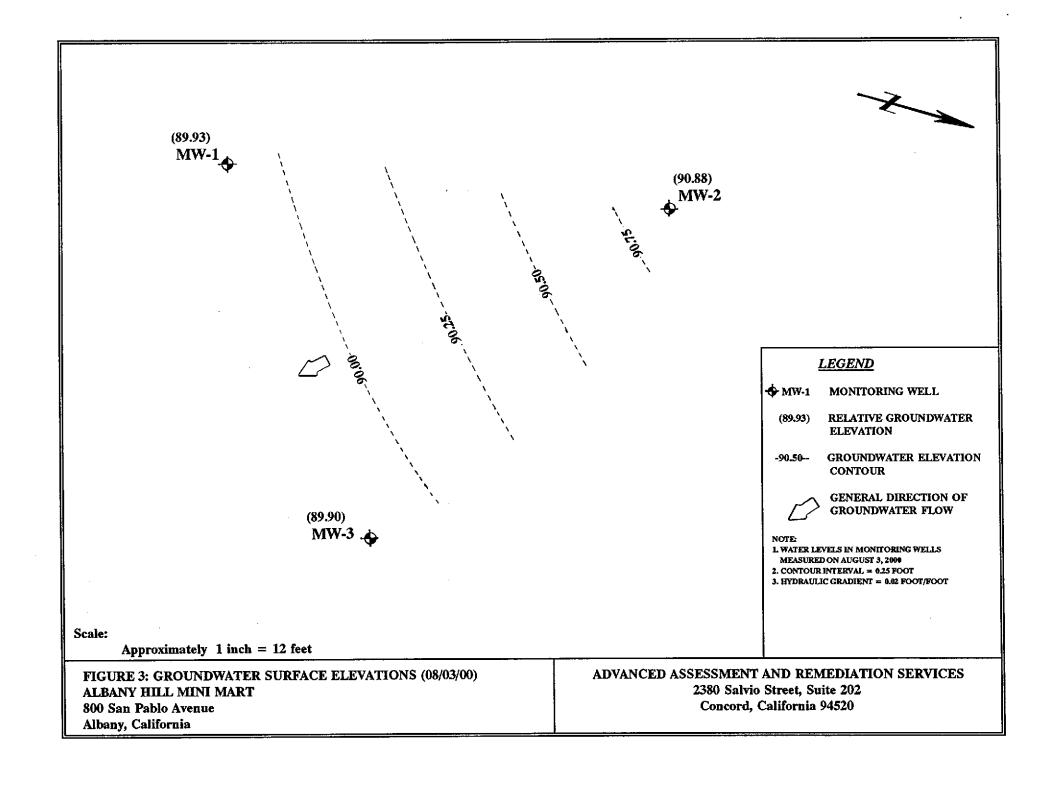
**

Confirmed by GC/MS method 8260

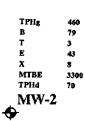
AHMMQ4.TB2







TPHs 1200
B 190
T 43
E 41
X 160
MTBE 360
TPH4 270
MW-1





<u>LEGEND</u>

♦ MW-1 MONITORING WELL

TPHg TOTAL PETROLEUM HYDROCARBON AS

GASOLINE

MTBE METHYL TERTIARY BUTYL ETHER

B BENZENE T TOLUENE

E ETHYLBENZENE

X XYLENES

TPH4 TOTAL PETROLEUM HYDROCARBON AS

DIESEL

NOTE:

1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (PARTS PER BILLION)

2. HYDROCARBON CONSTITUENTS WHICH WERE NOT DETECTED ARE NOT LISTED

SCALE

Approx. 1 inch = 12 feet

FIGURE 4: DISTRIBUTION OF DISSOLVED-PHASE HYDROCARBONS ALBANY HILL MINI MART 800 San Pablo Avenue Albany, California

220

35

16

11000

MTBE

TPHd

ADVANCED ASSESSMENT AND REMEDIATION SERVICES 2380 Salvio Street, Suite 202 Concord, California 94520

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

PROJECT NUMBER: 99005 PROJECT NAME: Albany Hill Mini Mart 800 San Pablo Avenue, Albany, CA SITE ADDRESS: WELL CASING DIA.: 2" DATE: 8/3/00 WELL NUMBER: M W- 1 Stagnant Volume Calculation Total Well Depth (ft) - Initial Depth to Water = Water Column Height (ft) -Time: 8:24 24 Water column Height (ft) x Gallons/Linear Foot = Stagnant Volume (Gallons) 12.25 0.17 2.1 (Gallons/Linear Foot: 2" dia. = 0.17; 4" dia. = 0.66; 6" dia. = 1.5)

Groundwater Inspection
Floating Product (ft. or in.):

Sheen/Iridescence:

Odor:

Time	Volume Purged (gal)	Temperature (degrees F)	рН	Conductivity µS	Color/Turbidity/Other
9:50	0	66.8	6.93	2380	CLEAR
10:00	2	66.7	7.11	2439	SLIGHTLY TURBID BROWNIS
10:10	5	66.7	7.10	2457	K 11 9
10:20	フ	66.6	7.12	2460	SILTY BROWNISH

Purged Water Containment	Ţ	Purge Method Used:		
7 gals stored in 1 55 gal	(drums); Any previous dr	ums? / Capacity 55		
Groundwater Sampling	Water Level Recovery (D	epth to groundwater in f	eet)	
(P) After purging: 12.76 (I) I	nitially: 11.75 (S) Before	ore sampling: 11.85	Гіте: <u>11:58</u>	
$(P-S)/P-I) \times 100 = 100 \% \text{ Total}$	Recovery: 90 %		SAMPLE TIME	12;00
Sample Containers (How many?	Preservatives?)			
1 liter amber glass:;	10 ml VOA: 2 ;	500 ml polypropylene:		
REMARKS:				

SAMPLER: TRIDIE GUHA

SIGNATURE: Tridill 1

(Print)

ADVANCED ASSESSMENT AND REMEDIATION SERVICES

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

		• • • • • • • • • • • • • • • • • • • •		•					
PROJECT NAME: Albany Hill Mini Mart PROJECT NUMBER: 99005									
SITE ADDRESS:	SITE ADDRESS: 800 San Pablo Avenue, Albany, CA								
WELL NUMBER	L: MW-2	WELL CASI	NG DIA.:	2"	DATE: 8/3/00				
Stagnant Volume Calculation Total Well Depth (ft) - Initial Depth to Water = Water Column Height (ft) - Time: 8:20 24 /0.69 /3.3/									
Water column Height (ft) x Gallons/Linear Foot = Stagnant Volume (Gallons) 13.3/ (Gallons/Linear Foot: 2" dia. = 0.17; 4" dia. = 0.66; 6" dia. = 1.5)									
Groundwater Inspection Floating Product (ft. or in.): None Sheen/Iridescence: Odor:									
Time	Volume Purged (gal)	Temperature (degrees F)	рН	Conductivity µS	Color/Turbidity/Other				
8:30	0	69.6	7.23	1351	CLEAR				
8:40	2	68.5	7,20	1295	SLIGHTLY TURBID GRAY				
8:50	5	68.2	7.17	1301	11 /1 //				

7.19

68.1

Purged	Water	Containment
I uigvu	mater	Contaminant

7

9:00

Purge Method Used:

1289

7 gals stored in 1 55 gal (drums); Any previous drums? / Capacity 55
Groundwater Sampling Water Level Recovery (Depth to groundwater in feet)
(P) After purging: 11.67 (I) Initially: 10.69 (S) Before sampling: 10.73 Time: 11:28
(P-S)/P-I) x 100 = 100 % Total Recovery: 96 /
Sample Containers (How many? Preservatives?)
1 liter amber glass: 1 ; 40 ml VOA: 2 ; 500 ml polypropylene:
REMARKS:

SAMPLER: TRIDIB GUHA

SIGNATURE:

ADVANCED ASSESSMENT AND REMEDIATION SERVICES

(Print)

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

PROJECT NAME:	Albany Hill Mini Ma	rt PROJECT N	UMBER: 99	9005	
SITE ADDRESS:	800 San Pablo Avenu	ie, Albany, CA			
WELL NUMBER: №	1W-3 WELL CAS	ING DIA.: 2"	DATE:	8/3/00	
Stagnant Volume Calc Total Well Depth (ft)		nter = Water Column H 13.57	leight (ft) -	Time:	8:22
Water column Height	(ft) x Gallons/Linear Fo	oot = Stagnant Volume	(Gallons)		
13.57	0.17	2.3			
(Gallons/Linear Foot: 2" d	lia. = 0.17; 4" dia. = 0.66; 6"	dia. = 1.5)			
Groundwater Inspection Floating Product (ft. o		Sheen/Iridescence:	1	Odor:	

Time	Volume Purged (gal)	Temperature (degrees F)	рН	Conductivity	Color/Turbidity/Other
9:10	0	69.6	7.15	1446	CIEAL
9:20	2	68.9	7.01	1547	SCIGHTLY TURBID BROWN
9:30	5	68.9	7.03	(541	м 11 11
9:40	7	68.7	6.98	1549	SILTY GRAYISH BROWN
-					

Purged Water Containment	Purge Meth	od Used:		
	drums); Any previous drums? 1	Capacity <u>55</u>		
Groundwater Sampling	Vater Level Recovery (Depth to gro	oundwater in feet)		
(P) After purging: (I) In	itially: 10.43 (S) Before samplin	g: <u>10.49</u> Time: 1	1:43	
(P-S)/P-I) x 100 = 100 % Total R	ecovery: 94 ½	S	AMPLE TIME	11:45-
Sample Containers (How many? I	reservatives?)			
1 liter amber glass:; 40	ml VOA: 2 ; 500 ml poly	propylene:	_	
REMARKS:	•			

Purge Method Used:

SAMPLER: TRIDIB GUHA

(Print)

SIGNATURE: Trickel 2.

ADVANCED ASSESSMENT AND REMEDIATION SERVICES

CERTIFICATE OF ANALYSIS

Lab Number:

00-1111

Client:

Advanced Assessment & Remd.

Project:

AHMM, 800 SAN PABLO AVE., ALBANY

Date Reported: 08/14/2000

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015M

Analyte	Method	[]	Result	Unit		Date Sampled	Date Analyzed
Sample: 00-11	L11-01	Client	ID: MW-1	GW		08/03/2000	WATER
Gasoline	8015M		1200	ug/L			08/07/2000
Benzene	8020		190	ug/L			
Ethylbenzene	8020		41	ug/L			
MTBE	8020		₹360	ug/L	MTBE		
Toluene	8020		43	\mathtt{ug}/\mathtt{L}			
Xylenes	8020		160	\mathtt{ug}/\mathtt{L}			
Diesel	8015M		*0.27	mg/L			08/07/2000
Sample: 00-11	111-02	Client	ID: MW-2	GW		08/03/2000	WATER
Gasoline	8015M		460	ug/L			08/07/2000
Benzene	8020		79	ug/L			
Ethylbenzene	8020		43	ug/L			
MTBE	8020		∞ 3300 g	ug/L	WIBE		
Toluene	8020		3	ug/L			
Xylenes	8020		8	\mathtt{ug}/\mathtt{L}			
Diesel	8015M		*0.07	mg/L			08/07/2000
Sample: 00-11	111-03	Client	ID: MW-3	GW		08/03/2000	WATER
Gasoline	8015M		910	ug/L			08/07/2000
Benzene	8020		220	ug/L			
Ethylbenzene	8020		35	ug/L			
MTBE	8020		**11.00	ug/L	WTBE		
Toluene	8020		9	ug/L			
				- 4 h cc	(36)		Page

^{*}Does not match diesel pattern**Confirmed by GC/MS

CERTIFICATE OF ANALYSIS

Lab Number:

00-1111

Client:

Advanced Assessment & Remd.

Project:

AHMM, 800 SAN PABLO AVE., ALBANY

Date Reported: 08/14/2000

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015M

Analyte	Method	Result	Unit	Date Sampled Date Analyzed
Sample:	00-1111-03	Client ID: MW-3	GW	08/03/2000 WATER
Xylenes	8020	16	ug/L	
Diesel	8015M	*0.3	${ m mg/L}$	08/07/2000

North State Environmental Laboratory

CA ELAP# 1753

90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number:

00-1111

Client:

Advanced Assessment & Remd.

Project:

AHMM, 800 SAN PABLO AVE., ALBANY

Date Reported: 08/14/2000

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015M

Analyte Diesel	Reporting Method Limit Unit			Avg MS/MSD Blank Recovery RPD						
	8015M	0.05	mg/L	ND	72	3				
Gasoline	8015M	50	ug/L	ND	116	1				
Benzene	8020	0.5	ug/L	ND	108	2				
Ethylbenzene	8020	0.5	ug/L	ND	108	1				
Toluene	8020	0.5	ug/L	ND	108	4				
Xylenes	8020	1.0	ug/L	ND	107	1				
MTBE	8020	0.5	ug/L	ND	113	4				

ELAP Certificate NO:1753

Reviewed and Approved

John A. Murphy, Laboratory Director

Page 3 of 3



North State Environmental Analytical Laboratory

Lab Job No.:_____Page_i_of_i_

00-1111 Chain of Custody / Request for Analysis

90 South Spruce Avenue, Suite W, South San Francisco, CA 94080 Phone: (650) 266-4563 Fax: (650) 266-4560

Client: ADVANCED ASSESSMENT			Report to:			Phone: 925-863-1999			1999	Turnaround Time			
Client: ADVANCED ASSESSMENT Mailing Address: + ncmb. Svc. 2380 SALVIO ST. # 202			Billing	Billing to:			Fax: 925-363-1998				ا میر ا		
2380 SALVIO 87. # 202			SAME			PO# / Billing Reference:			: -	Date: 8-3-00			
Concorp, CA 94570												Sampler: T. GUHA	
Project / Site Address:	800 SA	n n PABLO NY, CA	AVE	Re	Analys quested	is M	70/20	7/					
Sample ID	Sample Type	Container No. / Type	Pres.	Samp Date / 1	Γime	<i>[</i> * '	1/02						Comments / Hazards
MW-IGW	WAZER	2 VOAS	HCL	8/3/00	12:60	\times	$>\!$						
MN-2 av		2 VOAS	HCC	8/3/00	11:30	\times	\geq						
MW-3 GW		2 VOAS LAMB	HCC	8/3/00	11:45	$\geq \leq$	\simeq						
				,									
	<u></u>												
											ļ		
										h/		/	
Relinquished by: Thi distant Lab Comm								Lab Comments					
Relinquished by:			D	ate:	Time:		Receiv	red by: ^Z	/ 0	(
Relinquished by:			D	ate:	Time:		Receiv	ed by:					