

January 5, 1998

5nV 103b

GROUNDWATER MONITORING REPORT DECEMBER 6, 1997 GROUNDWATER SAMPLING ASE JOB NO. 3011

at
Zima Center Corporation
2951 High Street
Oakland, California 94619

Prepared by:
AQUA SCIENCE ENGINEERS, INC.
2411 Old Crow Canyon Road, #4
San Ramon, CA 94583
(510) 820-9391

1.0 INTRODUCTION

Site Location (Site), See Figure 1
Zima Center Corporation
2951 High Street
Oakland, CA 94619

Property Owner
Zima Center Corporation
2951 High Street
Oakland, CA 94619
Attn.: Mr. Mohammad Mashhoon
(510) 436-4700

Environmental Consulting Firm
Aqua Science Engineers, Inc. (ASE)
2411 Old Crow Canyon Road, #4
San Ramon, CA 94583
Contact: Robert Kitay, Senior Geologist
(510) 820-9391

Agency Review
Alameda County Health Care Services Agency (ACHCSA)
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502
Attn.: Ms. Madhulla Logan
(510) 293-8695

California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, CA 94612 Contact: Mr. Kevin Graves (510) 286-4359

The following is a report detailing the results of the December 6, 1997, groundwater sampling at the above referenced site (Figure 2).

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On December 6, 1997, ASE staff geologist Charlie Rous measured the depth to water in each site groundwater monitoring well using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen using a product thickness bailer. No free-floating hydrocarbons or sheen were present in any site monitoring well. Groundwater elevations are presented in Table One.

A groundwater potentiometric surface map is presented as Figure 2. The groundwater flow direction is to the south at a gradient of approximately 0.04. This gradient is consistent with previous calculated gradients and flow directions but is not consistent with petroleum hydrocarbon distribution in groundwater which suggest a northly groundwater flow direction.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSES

Prior to sampling, monitoring wells MW-2, MW-5 and MW-6 were purged of four well casing volumes of groundwater using dedicated polyethylene bailers. The pH, temperature and conductivity parameters were monitored during purging. Samples were not collected until these parameters stabilized. Groundwater samples were then collected from each well using dedicated polyethylene bailers. The samples were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials containing hydrochloric acid as a preservative, capped, labeled and placed in coolers with wet ice for transport to a California state certified analytical laboratory, Chromalab, Inc. of Pleasanton, California (ELAP #1094), under appropriate chain-of-custody documentation.

The well purge water was placed in 55-gallon steel 17H drums, labeled, and left on-site for temporary storage. Copies of the well sampling field logs are included as Appendix A.

The groundwater samples collected from monitoring wells MW-2, MW-5 and MW-6 were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 5030/8015M and benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020.

The analytical results for this and previous sampling events are presented in Table Two, and the certified laboratory report and chain-of-custody documentation are included as Appendix B.

- 2 -

4.0 GROUNDWATER REMEDIATION

Between May 28, 1997 and June 24, 1997, 2,550 lbs. of Oxygen Releasing Compound (ORC) was injected into the borings along the northern and eastern sides of the existing underground storage tanks (USTs). This drilling and ORC injection was performed by Fast-Tek Engineering Support Services of San Rafael, California on May 28 and 29 1997, Soils Exploration Services of Benicia, California on May 30, 1997 and En Prob Environmental Probing of Oroville, California on June 24, 1997.

On August 22, September 22, and December 6, 1997 ASE measured the dissolved oxygen (DO) in groundwater from each monitoring well. DO substantially increased in all site monitoring wells since the ORC injection was performed. A DO increase in groundwater will stimulate aerobic biodegradation of petroleum hydrocarbons. DO concentration data is presented in Table Three.

5.0 CONCLUSIONS

Petroleum hydrocarbon concentrations in samples collected from site monitoring wells are slightly higher than the previous sampling event. However, all current BTEX concentrations are below ASE's established Risk Based Corrective Action cleanup goals.

6.0 RECOMMENDATIONS

The facility will be sampled next quarter in March 1998, if petroleum hydrocarbon concentrations in groundwater samples collected from site monitoring wells remain low, ASE and the property owner, Mr. Mohammad Mashoon, will request the site be reviewed for closure.

- 3 -

7.0 REPORT LIMITATIONS

The results of this report represent the conditions at the time of the groundwater sampling at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the underground storage tanks and associated plumbing at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CAL-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project and trust that this report meets your needs. Please feel free to call us at (510) 820-9391 if you have any questions or comments.

Respectfully submitted,

AOUA SCIENCE ENGINEERS, INC.

Charlie Rous
Staff Geologist

Robert E. Kitay, R.G.

Senior Geologist

Attachments: Figures 1 and 2

Tables One, Two and Three

No. 6586

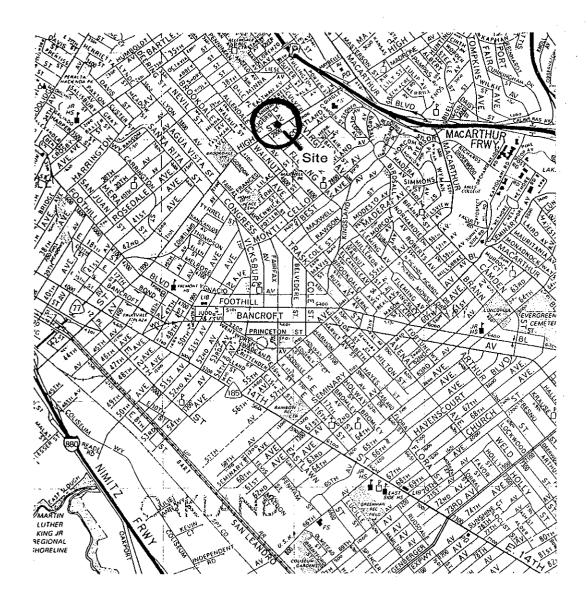
Appendices A and B

cc: Ms. Madhulla Logan, Alameda County Health Care Services Agency

Mr. Kevin Graves, RWQCB, San Francisco Bay Region

FIGURES





SITE LOCATION MAP

ZIMA CENTER CORPORATION 2951 HIGH STREET OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

FIGURE 1

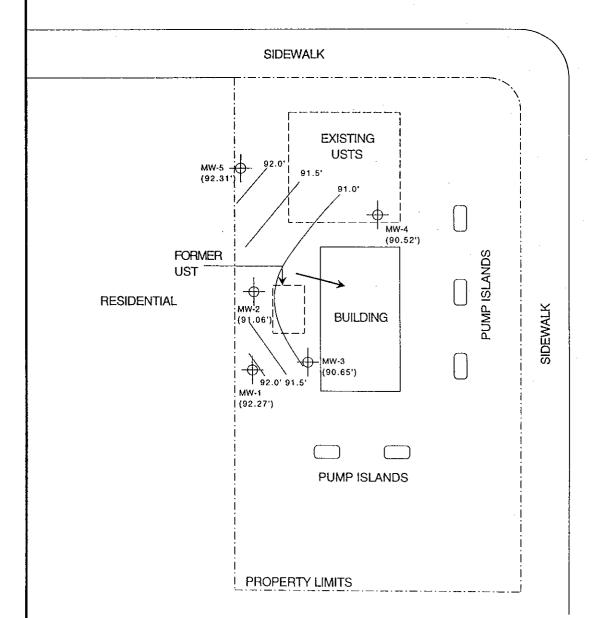
MW-6 (92.75')



SCALE

1" = 30'

PENNIMAN AVENUE



HIGH STREET

MW-6 (92.75') Monitoring well with groundwater elevation Groundwater elevation contour Groundwater flow direction

GROUNDWATER ELEVATION CONTOUR MAP - 12/06/97

ZIMA CENTER CORPORATION 2951 HIGH STREET OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

FIGURE 2

TABLES

TABLE ONE
Summary of Groundwater Well Survey Data

Well	Date of	Top of Casing Elevation	Depth to Water	Groundwater Elevation
I.D.		(relative to project datum)	(feet)	(project data)
MW-1	02-23-95	97.62	5.89	91.73
	05-26-95		5.20	92.42
	08-23-95		8.67	88.95
	12-13-96		4.61	93.01
	01-16-97	•	3.79	93.83
	03-27-97		5.87	91.75
	06-27-97		8.33	89.29
	09-22-97		9.62	87.90
	12-06-97		5.35	92.27
MW-2	02-23-95	97.87	6.81	91.06
	05-26-95		4.90	92.97
	08-23-95		8.33	89.54
	12-13-96		6.85	91.02
	01-16-97		1.54	96.33
	03-27-97		5.51	92.36
	06-27-97		8.43	89.44
	09-22-97		9.50	88.37
	12-06-97		6.81	91.06
MW-3	02-23-95	97.03	4.21	92.82
	05-26-95		6.44	90.59
	08-23-95		8.69	88.34
	12-13-96		5.60	91.43
	01-16-97		5.28	91.75
	03-27-97		6.64	90.39
	06-27-97		8.35	88.68
	09-22-97		9.42	87.61
	12-06-97		6.38	90.65
MW-4	02-23-95	96.77	6.25	92.07
	05-26-95		6.18	90.59
	08-23-95		8.55	88.22
	12-13-96		5.86	90.91
	01-16-97		5.79	90.98
	03-27-97		7.37	89.40
	06-27-97		8.75	88.02
	09-22-97		9.31	87.46
	12-06-97	•	6.25	90.52
MW-5	12-13-96	98.32	6.25	92.07
	01-16-97		6.32	92.00
	03-27-97		7.51	90.81
	06-27-97		8.96	89.36
	09-22-97		9.38	88.94
	12-06-97		6.01	92.31

TABLE ONE (Continued) Summary of Groundwater Well Survey Data

Well I.D.	Date of Measurement	Top of Casing Elevation (relative to project datum)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-6	01-16-97 03-27-97 06-27-97 09-22-97 12-06-97	98.16	5.12 6.55 8.39 9.14 5.41	93.04 91.61 89.77 88.99 92.75

TABLE TWO
Certified Analytical Results of GROUNDWATER Samples
All Results are in Parts Per Billion (ppb)

Sample I.D.	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	МТВЕ
<u>MW-1</u>	. 50	.0.5	-05	< 0.5	< 0.5	
02-23-95	< 50	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
05-26-95	< 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
08-23-95	< 50	< 0.5	< 0.3	~ 0.3	\ 0. 5	
MW-2						
$\frac{101 \times 32}{02-23-95}$	3,300	9.6	13	8	28	
05-26-95	4,600	39	18	21	39	
08-23-95	< 50	15	6	10	15	
12-13-96	1,900	110	110	120	330	65
03-27-97	3,900	34	20	86	140	200
06-27-97	2,400	18	< 5	6	8.8	2,000
09-22-97	< 5,000	8.4	20	33	100	3,900
12-06-97	3,000	3 3	4 0	4 0	140	2,300
<u>MW-3</u>				0.5		
02-23-95	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
05-26-95	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
08-23-95	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
MW 4						
<u>MW-4</u> 06-26-96	2,500	230	64	. 99	110	5,700
08-28-98	6,200	300	150	160	310	7,100
03-21-91	0,200	300	130	100	310	7,100
MW-5						
12-13-96	3,600	180	350	81	510	430
03-27-97	120,000	28,000	16,000	2,600	10,000	64,000
06-27-97	6,300	10,000	2,400	290	4,500	43,000
09-22-97	< 50,000	Ź.9	3.3	0.63	3.3	30,000
12-06-97	< 5,000**	3 3	1 2	< 5.0	7.3	33,000

TABLE TWO

(continued)

Certified Analytical Results of GROUNDWATER Samples All Results are in Parts Per Billion (ppb)

Sample I.D.	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
<u>MW-6</u>				•	•	
01-13-97	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
03-27-97	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5 <5
06-27-97	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5
09-22-97	< 50	< 0.5	< 0.5	< 0.5	< 0.5	24
12-06-97	9 4	< 0.5	< 0.5	< 0.5	< 0.5	< 5
EPA METHOD	5030/ 8015M	8020	8020	8020	8020	8020
DTSC MCL	NE	1	100*	680	1,750	NE

Notes:

DTSC MCL = Department of Toxic Substances Control maximum level for drinking water

* = DTSC recommended action level; MCL not established

NE = DTSC MCLs and RALs not established

** = Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration would equal 24,000 ppb.

--- = Not Analyzed

TABLE THREE
Summary of Dissolved Oxygen Results in Groundwater
All Results in Parts Per Million (ppm)

Sample I.D.	Before Purging	After Purging
MW-1 06-27-97 08-20-97 09-22-97 12-06-97	0.99 0.64 1.60 1.30	0.96
<u>MW-2</u> 06-27-97 08-20-97 09-22-97 12-06-97	0.86 0.43 1.15 1.52	0.94 0.81 3.40 4.88
MW-3 06-27-97 08-20-97 09-22-97 12-06-97	1.26 1.13 2.75 3.15	1.29
MW-4 06-27-97 08-20-97 09-22-97 12-06-97	0.97 5.50 11.80 5.15	6.18
MW-5 06-27-97 08-20-97 09-22-97 12-06-97	0.71 >20.00 >20.00 19.20	8.70 >20.00 >20.00 19.17
MW-6 06-27-97 08-20-97 09-22-97 12-06-97	0.61 0.69 1.10 2.11	0.89 1.02 2.90 2.50

Notes:

--- = Well not purged

APPENDIX A

Well Sampling Field Logs

Project Name and Address: Lind, 795/ High St. Valcland
Project Name and Address: Date of sampling: 12/6/97
Well Name: MW-1 Sampled by: WC
Total depth of well (feet): Well diameter (inches):
Job #: 3011 Date of sampling: 12/6/97 Well Name: MW-1 Sampled by: Well diameter (inches): 2 Depth to water before sampling (feet): 5.35
Thickness of floating product if any:
Depth of well casing in water (feet):
Number of gallons per well casing volume (gallons):
Number of well casing volumes to be removed:
Req'd volume of groundwater to be purged before sampling (gallons):
Fauityment used to purge the well:
Time Evacuation Finished:
Approximate volume of groundwater purged:
Did the well go dry?: After how many gallons:
Time samples were collected:
Depth to water at time of sampling:
Percent recovery at time of sampling:
Samples collected with:
Samples collected with:Odor:
Description of sediment in sample:
Z Schoring and a scho
CHEMICAL DATA
Volume Purged Temp pH Conductivity
SAMPLES COLLECTED
Sample # of containers Volume & type container Pres lced? Analysis

Project Name and Add Job #: Soll Well Name: Mw-7 Total depth of well (fe Depth to water before Thickness of floating Depth of well casing	sampling product if a	Date of Sampled S 3 (feet):(sampling: by:Cl Well diam S 1 A 3 0 2	neter (inches):	2
Number of gallons per Number of well casing Req'd volume of groun Equipment used to put Time Evacuation Began	g volumes andwater to arrive the wear: 12:150	to be remoted be purged the purged T	before sam ice tel i ime Evacuat	pling (gallons): Salev ion Finished: 13	8.8
Approximate volume Did the well go dry?: Time samples were of Depth to water at tim Percent recovery at the Samples collected with Sample color: Description of sedime CHEMICAL DATA	ollected: ne of samplime of sam th: $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	ing: 13 ppling: C	fter how ma	any gallons:	· · · · · · · · · · · · · · · · · · ·
Volume Purged O 3 lo 9	Temp 76.1 73.4 71.2 79.0	рН 873 3.51 3.32	0.31 x = 0.34 x = 0.34 x = 0.33 x	000 1000	
SAMPLES COLLECT	ED				
Sample # of containers MW-2 3	Volume & 1)	ype container UOA	Pres Iced?	Analysis TPH 5 /BTXX	/M+BE



Project Name and Address: LIMA, 295/. High St., Oulcland
Toh #: $\frac{2}{3}$ $\frac{301}{100}$ Date of sampling: $\frac{12}{6}$
Well Name: Mw-3 Sampled by:
Total depth of well (feet): Well diameter (inches): 2
Project Name and Address: Ima 1951. High St. Oulcland Job #: 23011 Date of sampling: 12/6/97 Well Name: Mw-3 Sampled by: Well diameter (inches): 2 Depth to water before sampling (feet): 6.38
Thickness of floating product if any:
Depth of well casing in water (feet):
Number of gallons per well casing volume (gallons):
Number of well casing volumes to be removed:
Req'd volume of groundwater to be purged before sampling (gallons):
Equipment used to purge the well:
Time Evacuation Began: Time Evacuation Finished:
Approximate volume of groundwater purged:
Did the well go dry?: After how many gallons:
Time samples were collected:
Depth to water at time of sampling:
Percent recovery at time of sampling:
Samples collected with: Sample color: Description of sediment in sample:
Sample color: Odor:
Description of sediment in sample:
CHEMICAL DATA
Volume Purged Temp pH Conductivity
SAMPLES COLLECTED \
Sample # of containers Volume & type container Pres Iced? Analysis
<u> </u>
1



Project Name and Address:	Lina, 2951 High St, Vaicland
Job #: 3011	Date of sampling: (2/6/97
Well Name: Mw-4	Sampled by:
Total depth of well (feet):	Well diameter (inches):
Depth to water before samp	Date of sampling: 12/6/97 Sampled by:
Thickness of floating produc	et ir any:
Depth of well casing in wat	er (feet):
Number of gallons per well	casing volume (gallons):
Number of well casing volu	imes to be removed:
Req'd volume of groundwate	er to be purged before sampling (gallons):
Equipment used to purge th	ne well:
Time Evacuation Began:	Time Evacuation Finished:oundwater purged:
Approximate volume of gro	oundwater purged:
Did the well go dry?:	After how many gallons:
Time samples were collected	ed:
	sampling:
Percent recovery at time of	f sampling:
Samples collected with:	Odor:
Description of sediment in	sample:
CHEMICAL DATA	
Volume Purged Temp	pH Conductivity
	
CAMPIEC COLLECTED	
SAMPLES COLLECTED	
Samala # of containers Waltum	P. Anna agrania D. V. 19. Annalysis
Sample # of containers Volume	& type container Pres Iced? Analysis

Project Name and Ad	dress:	1mA, 2751-1744	St, Valcland
Job #: 3011		Date of sampling: /_ /	2/6/97
Well Name:MW	<u> </u>	Dampies 0):	
Total depth of well (f	eet): ''c	<u>الحالة</u> Well diamet	ter (inches): 2
Depth to water before	sampling	(feet): 601 nny: W/p	
Thickness of floating	product if	$my: \underline{\qquad \qquad } V_{1} p_{-} $	
Depth of well casing	in water (f	et): 21.17	
Number of gallons pe	r well casi	ng volume (gallons): 3	. (0
Number of well casin	g volumes	to be removed: <u> </u>	
Rea'd volume of grou	indwater to	be purged before sample	ing (gallons): 15
Equipment used to pr	arge the w	11: Dedicated Bail	ev
Time Evacuation Reg	an. 13:10	Time Evacuation	n Finished 12 40
Approximate volume	of groundy	After how man	
Did the well go dry?:	No	After how man	y gallons:
Time samples were	collected:	15:15	<i></i>
Depth to water at tim	ne of samp	ing: <u>20.96</u>	
Percent recovery at t	ime of san		
Samples collected wi	th: Ded	ated Baler	
Sample color:	hV	Odor: none	
Description of sedime	ent in samt	le: 120C	
20001.P			
CHEMICAL DATA		•	
Volume Purged	Temp	pH Conductivity	γ.
D	76.0	8.02 1.35 x to	-
	773	3.01 1.2.7x4	
	8	305 24 x	
-	72.4	391 1.043	
			<u> </u>
SAMPLES COLLECT	ED	·	
	LD.		
Sample # of containers	Volume & tv	ne container Pres Iced? A	nalysis
MW-5 3	Word 1	pe container Pres Iced? A IDA Hil Yes	TPH-E/BIEX/MINE
7-00-			
	*···		



Project Name and Ac	ldress: \angle (ma 7	951 /tray St. Oakland
Inh # 301/		Date of	sampling: 12/6/97
Well Name: MW-	-6	Sampled	sampling: 12/6/97 by:
Total depth of well (f	feet): 28	20°	Well diameter (inches): 2
Depth to water before	e sampling ((feet):	7, 91
Thickness of floating	product if a	any:	1 2.79 (gallons): 3.8
Depth of well casing	in water (fe	et): 2	2.79
Number of gallons pe	er well casir	g volume	(gallons): 33
Number of well casis	g volumes	to be rem	oved: 4
Rea'd volume of grou	indwater to	he purged	before sampling (gallons): 15
Equipment used to n	urge the we	II: Deli	entel Bailer
Time Evacuation Reg	an: 13:45	T:	ime Evacuation Finished: 1407
			ed:
Did the well on dry?	or groundw	A	fter how many gallons:
Time samples were	collected:	15.27	Titol now many gantons.
Depth to water at tir	ne of sampl	ing 5.	fter how many gallons:
Percent recovery at t	ime of sam	nling.	
Samples collected wi	th: De	dictor	Bailer dor: NOR
Sample color:		0	dor: OOG
Description of sedime	ent in samn	le 🏠	ore
bosoription of boarm	one in bump	.0	
CHEMICAL DATA			
Volume Purged	Temp	pН	Conductivity
0	- <u></u>	3 4×	55 / 4 Boo
	<u> </u>	4, 2 5	g file gar
	<u> </u>	<u> </u>	0.468.00
	<u> </u>		0.45 X/000
SAMPLES COLLECT	ED		
Sample # of containers	Volume & typ	e container	
mw-6 3	youl	VOA	HU Y TPH G/BIEX MITHIE

APPENDIX B

Certified Analytical Report and Chain of Custody Documentation

Environmental Services (SDB)

December 15, 1997

Submission #: 9712145

AQUA SCIENCE ENGINEERS INC

Atten: Charlie Rous

Project: ZIMA CENTER CORP

Received: December 8, 1997

Project#: 3011

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-2

Spl#: 161533

Matrix: WATER

Sampled: December 6, 1997

Run#:10149

Analyzed: December 11, 1997

ANALYTE	RESULT	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK DILUTION SPIKE FACTOR (%)
GASOLINE	3000	500	N.D.	114 10
MTBE	2300	50	N.D.	102 10
BENZENE	33	5.0	N.D.	97 10
TOLUENE	40	5.0	N.D.	93 10
ETHYL BENZENE	40	5.0	N.D.	96 10
XYLENES	140	5.0	N.D.	93 10

Wincent Vancil

Chemist

Michael Verona

Operations Manager

Environmental Services (SDB)

December 15, 1997

Submission #: 9712145

AQUA SCIENCE ENGINEERS INC

Atten: Charlie Rous

Project: ZIMA CENTER CORP

Received: December 8, 1997

Project#: 3011

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-5

Spl#: 161534
Sampled: December 6, 1997

Matrix: WATER

Run#:10149

Analyzed: December 11, 1997

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK DILUTION SPIKE FACTOR (%)
BENZENE TOLUENE ETHYL BENZENE XYLENES	33 12 N.D. 7.3	5.0 5.0 5.0 5.0	N.D. N.D. N.D.	97 10 93 · 10 96 10
GASOLINE MTBE	N.D. 33000	5000 500	N.D. N.D. N.D.	93 10 114 100 102 100

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration

would equal 24000 ug/L.

Vincent Vancil

Chemist

Michael Verona

Operations Manager

Environmental Services (SDB)

December 15, 1997

Submission #: 9712145

AQUA SCIENCE ENGINEERS INC

Atten: Charlie Rous

Project: ZIMA CENTER CORP

Project#: 3011

Received: December 8, 1997

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-6

Spl#: 161535

Matrix: WATER

Sampled: December 6, 1997

Run#:10096

Analyzed: December 10, 1997

	4	REPORTING	BLANK	BLANK D	ILUTION
	RESULT	LIMIT	RESULT	SPIKE I	FACTOR
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)	
GASOLINE	94	50	N.D.	110	1
MTBE	N.D.	5.0	N.D.	114	1
BENZENE	N.D.	0.50	N.D.	102	1
TOLUENE	N.D.	0.50	N.D.	99	1
ETHYL BENZENE	N.D.	0.50	N.D.	104	1
XYLENES	N.D.	0.50	N.D.	100	1

Vincent Vancil

Chemist

Michael Verona

Operations Manager

Environmental Service (SDB)

Sample Receipt Checklist

Client Name	: AQUA SCIENCE E	NGINEERS INC	Date/T	ime Receive	ed: 12/0	8/97 1 250
Reference/Su	ubmis: 37106 9	712145	Receive	ed by: MA	<u> </u>	
Checklist co	ompleted by:	gnature /	19/97 Date	Review	wed by: (Initials Date
Matrix:	WATER	Carr	ier name:	Client - C	D	
Shipping conta	niner/cooler in good	d condition?		Yes	No	Not Present
Custody seals	intact on shipping	container/coole	er?	Yes	No	Not Present
Custody seals	intact on sample be	ottles?		Yes	No	Not Present
Chain of custo	ody present?				Yes	No
Chain of custo	ody signed when rel:	inquished and re	ceived?		Yes	No
Chain of custo	ody agrees with sam	ole labels?			Yes	No
Samples in pro	pper container/bott	Le?			Yes	
Sample contain	ners intact?				Yes	No
Sufficient sam	nple volume for ind:	icated test?			Yes	No
All samples re	eceived within hold:	ing time?		سر. ہر	Yes	No
Container/Temp	Blank temperature	in compliance?		Temp: 3.5	°C Yes	No
Water - VOA vi	ials have zero head:	space? N	o VOA vials s	submitted	Yes	No
Water - pH acc	ceptable upon receip	ot? [//2	Adjusted?	Checked	l by	chamiet for Work
Any No and/or	NA (not applicable)			in the commen	ts section	on below.
Client contact	ced:	Date contact	ed:	Person co	ntacted:	· · · · · · · · · · · · · · · · · · ·
Contacted by:		Regarding: _				
Comments:			_			
Corrective Act	cion:					

12147/161020-161-20 Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4,
San Ramon, CA 94583
(510) 820-9391 - FAX (510) 837-4853

Chain of Custody

DATE 12/7/97 PAGE 1 OF 1 PROJECT NAME ZIMA CENTER LORD NO. 3011 (PHONE NO.) SAMPLERS (SIGNATURE) ADDRESS 2951 High ST, OAMAND, 820 9391 ANALYSIS REQUEST SPECIAL INSTRUCTIONS: LUFT METALS (5) (EPA 6010+7000) 5 DAY TAT SUBM #: 9712145 REP: PM CLIENT: ASE TO REF #:37106 12/15/97 NO, OF SAMPLE ID. DATE TIME MATRIX SAMPLES 12/6/40 15:10 3UDA 40 MUJ-2 3 VDA mw-5 H2O 12/6/97 15:25 3 VOA Ho mw-6 REKINQUISHED BY: RECEIVED BY: RECEIVED BY LABORATORY: RELINOUISHED BY: 13:40 MOSA OT : PR MUSA ATIBRAI 1420 (signature) (time) (signature)

iprinted name)

(printed name)

Company. ASE

(printed name)

Company-