

ENVIRONMENTAL HEALTH
SAN JOAQUIN COUNTY
304 E WEBER AVE 3RD FL
STOCKTON CA 95202-2708
AUG 14 2003

Quarterly Report - Second Quarter 2003
SUTTER OFFICE CENTER
242 North Sutter Street, Stockton, California

31 July 2003
AGE-NC Project No 02-0964

PREPARED FOR:

Ms Juli Lozano
SUTTER OFFICE CENTER

PREPARED BY



Advanced GeoEnvironmental, Inc.

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Quarterly Report - Second Quarter 2003
SUTTER OFFICE CENTER
242 North Sutter Street, Stockton, California

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AGE-NC Project No 02-0964



Advanced GeoEnvironmental, Inc.
837 Shaw Road, Stockton, California

PREPARED BY

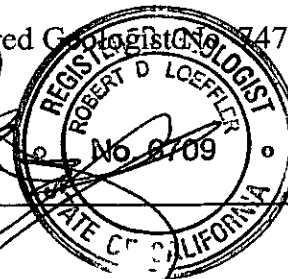
William Little

William Little
Project Geologist
California Registered Geologist No. 7473

REVIEWED BY

Robert D. Loeffler

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Project Geologist
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Quarterly Report - First Quarter 2003
SUTTER OFFICE CENTER
242 North Sutter Street, Stockton, California
TABLE OF CONTENTS

		<u>Page</u>
1.0	INTRODUCTION	1
2.0.	PROCEDURES	1
2 1	WELL MONITORING AND EVACUATION	1
2 2	GROUND WATER SAMPLING	1
3.0	FINDINGS	2
3 1	GROUND WATER ELEVATION, FLOW DIRECTION AND GRADIENT	2
3 2	GROUND WATER ANALYTICAL RESULTS	3
4.0	SUMMARY AND CONCLUSIONS	3
5.0	RECOMMENDATIONS	3
6.0	LIMITATIONS	4

FIGURES

- Figure 1 - *Location Map*
- Figure 2 - *Site Plan*
- Figure 3 - *Ground Water Elevation Map*

TABLES

- Table 1 - *Ground Water Elevation Data*
- Table 2 - *Analytical Results of Ground Water Samples - EPA Method 8015M/8020/8260*
- Table 3 - *Analytical Results of Ground Water Samples - EPA Method 8260M*

APPENDICES

- Appendix A - *Historical Background*
- Appendix B - *Monitoring Well Field Logs*
- Appendix C - *Laboratory Report of Water Samples*

Quarterly Report - Second Quarter 2003
SUTTER OFFICE CENTER
242 North Sutter Street, Stockton, California

1.0. INTRODUCTION

At the request of Ms Juli Lozano of the SUTTER OFFICE CENTER, *Advanced GeoEnvironmental, Inc (AGE)* has prepared this quarterly report for 242 North Sutter Street in Stockton, California (the site) The scope of work included conducting a quarterly ground water monitoring event and preparation of this report The site setting is illustrated on Figure 1 Site structures, soil boring and monitoring well locations are depicted on Figure 2

This report was prepared in accordance with Central Valley Regional Water Quality Control Board (CVRWQCB) guidelines for the investigation of underground storage tank (UST) sites Site history and findings from previous investigations and monitoring events are provided in Appendix A

2.0. PROCEDURES

On 24 April 2003, ground water monitoring and sampling were performed at each well at the site The investigation was conducted in accordance with the CVRWQCB and the San Joaquin County Environmental Health Department (EHD) guidelines for the subsurface investigation of UST sites and sampling of ground water monitoring wells

2.1 WELL MONITORING AND PURGING

On 24 April 2003, depth to ground water was measured in each well from the top of the well casing to the nearest 0.01 foot utilizing a Solinst water level meter The ground water elevation was calculated by subtracting the measured depth to ground water from the surveyed casing elevation (Table 1)

After water levels were measured, disposable, dedicated bailers were used to purge the wells Approximately 3.75 to 6 gallons of ground water (equivalent to three casing-water volumes) of water were purged from each well Temperature, pH and conductivity were measured for stabilization at regular purge-volume intervals using an Oakton water analyzer Field data and logs are provided in Appendix B Purged ground water was containerized in 55-gallon drums and was stored on-site, pending proper disposal

2.2 GROUND WATER SAMPLING

Water samples were collected from the monitoring wells using the dedicated, disposable bailers after allowing the wells to achieve a minimum 80% recovery of the pre-purge water volume or from the water within the wells (shallow wells) The sample from each well was transferred into three 40-ml

EPA-approved volatile organic analysis (VOA) vials containing 0.5 ml 18% hydrochloric acid as a sample preservative and one-liter amber bottles lacking preservative. Care was taken to ensure that visible air bubbles were not present in the vials after filling and capping. The ground water sample containers were subsequently labeled with the well designation, date, time, and sampler's initials.

2.3 LABORATORY ANALYSIS OF GROUND WATER SAMPLES

Each ground water sample was logged on a chain-of-custody form, placed in a chilled container and shipped to Cal Tech Environmental Laboratories (CTEL), a California Department of Health Services (DHS)-certified analytical laboratory. Selected samples were analyzed for:

- Total petroleum hydrocarbons quantified as gasoline and diesel (TPH-g and TPH-d) in accordance with EPA Method 8015-Modified and,
- Benzene, toluene, ethylbenzene and xylene (BTEX) and the fuel additives methanol, ethanol, ethylene dibromide (EDB), 1,2-dichloroethane (1,2-DCA), tertiary butanol (TBA), di-isopropyl ether (DIPE), ethyl tert butyl ether (ETBE), tert amyl methyl ether (TAME), methyl tertiary-butyl ether (MTBE) by EPA Method 8260B.

3.0. FINDINGS

Ground water elevation, flow direction and gradient were determined from field data collected on 24 April 2003, the contaminant impact to ground water was assessed from the ground water laboratory data.

3.1 GROUND WATER ELEVATION AND GRADIENT

During the April 2003 ground water monitoring event, depths to ground water ranged between 27.98 and 28.23 feet below the tops of well casings. Ground water elevations were calculated to be between 17.20 feet (MW-1) and 16.29 feet (MW-3) below mean sea level (MSL). The ground water was inferred to flow east to northeast at a gradient of approximately 0.006 ft/ft (Figure 3).

Ground water table elevation at the site increased an average 0.1 foot between the January and April 2003 ground water monitoring events.

3.2 LABORATORY RESULTS OF GROUND WATER SAMPLES

Three ground water samples were collected and submitted for laboratory analysis. The analysis detected TPH-g and TPH-d in ground water sample MW-1 at concentrations of 6,600 micrograms per liter ($\mu\text{g/l}$) and 1,200 $\mu\text{g/l}$, respectively. In addition, BTE&X compounds were detected in sample MW-1 at concentrations ranging from 40 $\mu\text{g/l}$ of toluene to 2,690 $\mu\text{g/l}$ of xylenes.

No other target analytes were detected in the samples analyzed. Analytical results of the monitoring well ground water samples are summarized in Tables 2 and 3. The laboratory reports (CTEL ID CT214-0304159), quality assurance and quality control and chain-of-custody forms are presented in Appendix C.

4.0. CONCLUSIONS

The findings from the April 2003 ground water monitoring event are as follows:

- Ground water flow direction at the water table was towards the east to northeast at a gradient of 0.006 feet/foot. The ground water elevation at the site has increased 0.1 foot between January and April 2003.
- TPH-g and TPH-d were detected in ground water sample from well MW-1 at concentrations as high as 6,600 $\mu\text{g/l}$ TPH-g. BTE&X compounds benzene (490 $\mu\text{g/l}$), ethylbenzene (1,200 $\mu\text{g/l}$) and xylenes (2,690 $\mu\text{g/l}$) were significantly above the DHS's Maximum Contaminant Levels established for these compounds in drinking water.
- The vertical and lateral extent of TPH and BTE&X compounds have not been defined.

5.0. RECOMMENDATIONS

Based on the findings of this investigation, AGE recommends continue quarterly ground water monitoring. The next monitoring event is scheduled for August 2003.

31 July 2003

AGE-NC Project No 02-0964

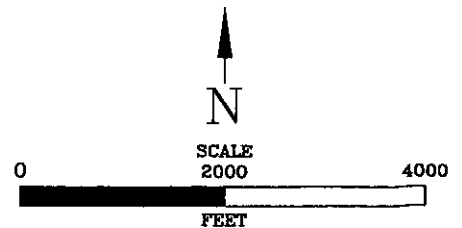
Page 4 of 4

6.0. LIMITATIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based mainly upon analytical results provided by an independent laboratory. Evaluations of the geologic/hydrogeologic conditions at the site for the purpose of this investigation are made from a limited number of available data points (i.e. ground water samples), and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional interpretations, opinions and recommendations contained in this report.



STOCKTON WEST QUADRANGLE, CALIFORNIA
 75 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)
 PHOTOREVISED 1987



LOCATION MAP
 SUTTER OFFICE BUILDING
 242 SUTTER STREET
 STOCKTON, CALIFORNIA



Advanced
GeoEnvironmental, Inc
of Northern California

PROJECT NO	FILE LOCATION	FIGURE
AGE-NC-02-0964		
DATE 25 OCTOBER 2002	DRAWN BY MAC	1

FORMER UNOCAL

SIDEWALK

MINER AVENUE

LATERAL EXTENT OF SHALLOW SOIL CONTAMINATION

DRIVEWAY

U-7

SIDEWALK

LOCATION OF FOUR 550 GALLON ABANDONED IN PLACE USTS

APPROXIMATE LOCATION OF FORMER STANDARD OIL DISPENSERS

APPROXIMATE LOCATION OF FORMER STANDARD OIL USTS

MW-3

APPROXIMATE LOCATION OF FORMER STANDARD OIL DISPENSERS

DISPENSER

SIDEWALK

DRIVEWAY

CALIFORNIA STREET

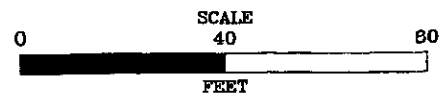
SIDEWALK

H

LEGEND

- A • SOIL BORING LOCATION
- MW-1 ◉ GROUND WATER MONITORING WELL

1932 -1958 UST LOCATION
 1967 -1980 UST LOCATION



SITE PLAN

SUTTER OFFICE CENTER (242 N SUTTER)
 434-448 EAST MINER STREET
 STOCKTON, CALIFORNIA



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 of Northern California

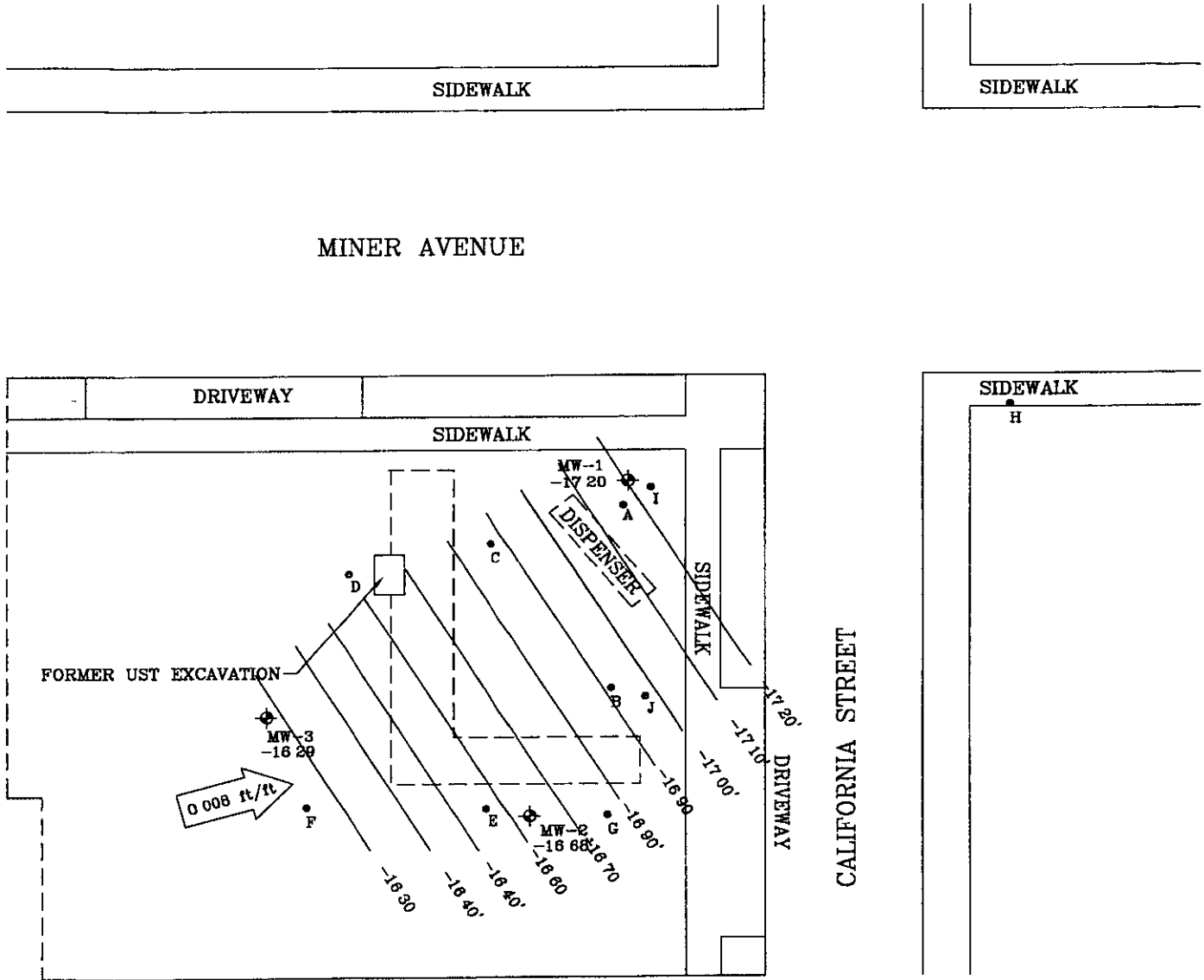
PROJECT NO AGE-NC-02-0964	FILE SOC2	FIGURE
DATE 16 MAY 2003	DRAWN BY MAC	2

LEGEND

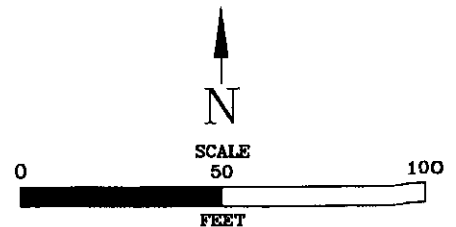
FORMER UNOCAL

A • SOIL BORING LOCATION

MW-1 ◊ GROUND WATER MONITORING WELL



24 APRIL 2003



GROUNDWATER ELEVATION
SUTTER OFFICE CENTER
242 SUTTER STREET
STOCKTON, CALIFORNIA



Advanced
GeoEnvironmental, Inc
of Northern California

PROJECT NO AGE-NC-02-0964	FILE SOC3	FIGURE
DATE 30 JUNE 2002	DRAWN BY MAC	3

TABLE 1

Ground Water Elevation Data
SUTTER OFFICE CENTER
 242 North Sutter Street, Stockton, California
 (feet)

Well ID	Date	MW-1	MW-2	MW-3
Reference Elevation		10 95	11 55	11 69
Screen Interval (bsg)		20-40	20-40	20-40
Depth to Ground Water	09/10/01	26 64	26 63	26 72
	01/31/02	27 17	27 20	27 26
	10/28/02	28 17	28 16	27 60
	01/24/03	28 25	28 40	27 96
	04/24/03	28 15	28 23	27 98
Ground Water Elevation	09/10/01	-15 10	-14 42	-13 89
	01/31/02	-15 63	-14 99	-14 43
	10/28/02	-17 22	-16 61	-15 91
	01/24/03	-17 30	-16 85	-16 27
	04/24/03	-17 20	-16 68	-16 29
Gradient and direction	09/10/01	0 009 ft/ft, directed northeast		
	01/31/02	0 009 ft/ft, directed northeast		
	10/28/02	0 01 ft/ft, directed east - northeast		
	01/24/03	0 008 ft/ft, directed northeast		
	04/24/03	0 006 ft/ft, directed northeast		

TABLE 2
ANALYTICAL RESULTS OF GROUND WATER SAMPLES -EPA Method 8015M/8260
SUTTER OFFICE CENTER
242 North Sutter Street, Stockton, California
(ug/l)

Well ID (Screen)	Sample Date	Depth to GW (feet)	TPH-d (8015m)	TPH-g (8015m)	Volatile aromatic compounds (8260)			
					Benzene	Toluene	Ethyl-benzene	Xylenes
MW-1 (20' to 40')	09/10/01	26.64	5,600	17,000	320	160	1,000	4,200
	01/31/02	27.17	9,000	18,000	360	<100	1,600	4,700
	10/28/02	28.17	93	21,000	370	90	1,500	3,400
	01/24/03	28.25	22	18,000	290	79	1,200	3,600
	04/24/03	28.15	0.12	6,600	490	40	1,200	2,690
MW-2 (20' to 40')	09/10/01	26.63	<50	<50	<0.5	<0.5	<0.5	<0.5
	01/31/02	27.20	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/28/02	28.16	<0.05	<50	<0.5	<0.5	<0.5	<0.6
	01/24/03	28.40	<0.05	<50	<0.5	<0.5	<0.5	<0.6
	04/24/03	28.23	<0.05	<50	<0.5	<0.5	<0.5	<0.6
MW-3 (20' to 40')	09/10/01	26.72	<50	<50	<0.5	<0.5	<0.5	<0.5
	01/31/02	27.26	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/28/02	27.60	<0.05	<50	<0.5	<0.5	<0.5	<0.6
	01/24/03	27.96	<0.05	<50	<0.5	<0.5	<0.5	<0.6
	04/24/03	27.98	<0.05	<50	<0.5	<0.5	<0.5	<0.6

Notes micrograms per liter µg/l * EPA 8260m

TABLE 3
ANALYTICAL RESULTS OF GROUND WATER SAMPLES ANALYZED BY EPA METHOD 8260
SUTTER OFFICE CENTER
242 North Sutter Street, Stockton, California

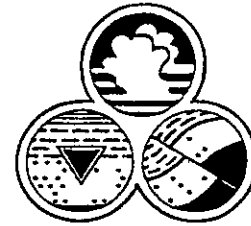
Well I D	Date	DIPE	ETBE	MTBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-1	09/10/01	<10	<10	<120	<10	<200	-	<4,000	<10	<10
	01/31/02	<50	<50	<500	<50	<2,000	-	<4,000	<50	<50
	10/28/02	<10	<10	<10	<10	<10	<1,000	<50	<10	<10
	01/24/03	<10	<10	<10	<10	<10	<1,000	<50	<0.5	<0.5
	04/24/03	<10	<10	<10	<10	<10	<1000	<50	<0.5	<0.5
MW-2	09/10/01	<10	<10	93	<10	<10	-	<4,000	<10	<10
	01/31/02	<10	<10	<25	<10	<10	-	<4,000	<10	<10
	10/28/02	<10	<10	<10	<10	<10	<1,000	<50	<0.5	<0.5
	01/24/03	<10	<10	<10	<10	<10	<1,000	<50	<0.5	<0.5
	04/24/03	<10	<10	<10	<10	<10	<1,000	<50	<0.5	<0.5
MW-3	09/10/01	<10	<10	<25	<10	<10	-	<4,000	<10	<10
	01/31/02	<10	<10	<25	<10	<10	-	<4,000	<10	<10
	10/28/02	<10	<10	<10	<10	<10	<1,000	<50	<0.5	<0.5
	01/24/03	<10	<10	<10	<10	<10	<1,000	<50	<0.5	<0.5
	04/24/03	<10	<10	<10	<10	<10	<1,000	<50	<0.5	<0.5

Notes micrograms per liter µg/l
 Di-isopropyl Ether (DIPE) Ethyl tertiary-Butyl Ether (ETBE)
 Methyl-tertiary Butyl Ether (MTBE) tertiary-Amyl Methyl Ether (TAME)
 tertiary-Butanol(TBA) ethylenedibromide (EDB)
 1,2 dichloroethan (1,2-DCA)

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Monitoring Well Field Log

Well Data

Project Name <i>Sutter Office Center</i>		Project No <i>AGE-NC-02-0964</i>	Date <i>4/25/03</i>
Pre-Purge DTW <i>28 15</i>	Time <i>0851</i>	Well I.D. <i>MW 1</i>	
Post-Purge DTW <i>28 20</i>	Time <i>1027</i>	Casing Diameter <i>2"</i> 4" 6" Gal./Ft. 0.16 0.65 1.47	
Total Depth of Well <i>42 36'</i>	Well Volume <i>1.25</i>	Sampler(s) <i>GP</i>	
Sample I.D. <i>MW 1 / 04-25-03</i>		Sample Containers <i>3 VOAS / AMBER</i>	
		Analysis <i>Methanol + Ethanol TPH-G+D/BTEX/5oxys/42DCA+EOB</i>	

Stabilization Data

Time	Volume (gallons)	pH	Temp	Cond μ S/cm X	Color/ Turbidity	Notes
<i>1014</i>	<i>0</i>	<i>6.68</i>	<i>22.5</i>	<i>759</i>	<i>clear</i>	<i>Fuel smell.</i>
<i>1017</i>	<i>1</i>	<i>6.67</i>	<i>22.6</i>	<i>761</i>	<i>cloudy</i>	<i>"</i>
<i>1020</i>	<i>2</i>	<i>6.69</i>	<i>22.6</i>	<i>752</i>	<i>"</i>	<i>"</i>
<i>1023</i>	<i>3.75</i>	<i>6.71</i>	<i>21.8</i>	<i>736</i>	<i>"</i>	<i>"</i>

Purge Method	<i>Disp Bailer</i>		
Sample Method	<i>- Same -</i>	Well Integrity	
Sample Time	<i>1030</i>	Dissolved O ₂	
<i>- OAKTON -</i>			

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4005 North Wilson Way Stockton, CA 95205 • (209) 467-1006 • Fax (209) 467-1118



Monitoring Well Field Log

Well Data

Project Name <i>Sutter Office Center</i>		Project No <i>AGE-NC-02-0964</i>	Date <i>4/25/03</i>
Pre-Purge DTW <i>28 23</i>	Time <i>0849</i>	Well I D <i>MW 2</i>	
Post-Purge DTW <i>28 35</i>	Time <i>0959</i>	Casing Diameter <i>2"</i> 4" 6" Gal./Ft. 0.16 0.65 1.47	
Total Depth of Well <i>40'</i>	Well Volume <i>1.88</i>	Sample Containers <i>3 VOAS / AMBER</i>	
Sampler(s) <i>GP</i>		Analysis. <i>Methanol + Ethanol</i>	
Sample I D <i>MW 2 / 04-25-03</i>		<i>TPH-G+D/BTEX/5OXYS/1,2DCA+E0B</i>	

Stabilization Data

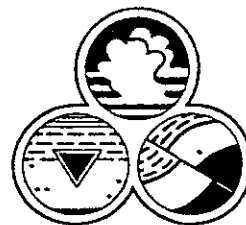
Time	Volume (gallons)	pH	Temp	Cond μ S/cm X	Color/Turbidity	Notes
<i>0942</i>	<i>0</i>	<i>6.85</i>	<i>21.2</i>	<i>759</i>	<i>Clear</i>	<i>odorless</i>
<i>0944</i>	<i>1</i>	<i>6.85</i>	<i>22.0</i>	<i>793</i>	<i>TAN</i>	<i>odorless</i>
<i>0948</i>	<i>2</i>	<i>6.86</i>	<i>22.1</i>	<i>817</i>	<i>"</i>	<i>"</i>
<i>0949</i>	<i>3</i>	<i>6.86</i>	<i>22.2</i>	<i>824</i>	<i>"</i>	<i>"</i>
<i>0951</i>	<i>4</i>	<i>6.86</i>	<i>22.3</i>	<i>831</i>	<i>"</i>	<i>"</i>
<i>0955</i>	<i>5.75</i>	<i>6.88</i>	<i>22.1</i>	<i>840</i>	<i>"</i>	<i>"</i>

Purge Method	<i>Disp. Bailer</i>		
Sample Method	<i>- Same -</i>	Well Integrity	
Sample Time	<i>1002</i>	Dissolved O ₂	
<i>- OAKTON -</i>			

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Monitoring Well Field Log

Well Data

Project Name <i>Sutter Office Center</i>		Project No <i>AGE-NC-02-0964</i>	Date <i>4/25/03</i>
Pre-Purge DTW <i>27.98</i>	Time <i>0844</i>	Well ID <i>MW 3</i>	
Post-Purge DTW <i>28.07</i>	Time <i>0942</i>	Casing Diameter <i>2"</i> 4" 6" Gal / Ft 0.16 0.65 1.47	
Total Depth of Well <i>40'</i>	Well Volume <i>1.92</i>	Sample Containers <i>3 VOAS 1 AMBER</i>	
Sampler(s) <i>GP</i>	Analysis <i>Methanol + Ethanol</i>		
Sample ID <i>MW 3 / 04-25-03</i>	<i>TPH-G+D/BTEX/SOXY5/1,2 DCA+EOB</i>		

Stabilization Data

Time	Volume (gallons)	pH	Temp	Cond μ S/cm X	Color/Turbidity	Notes
<i>0925</i>	<i>0</i>	<i>6.93</i>	<i>21.0</i>	<i>556</i>	<i>Clear</i>	<i>odorless</i>
<i>0928</i>	<i>1</i>	<i>6.88</i>	<i>21.0</i>	<i>567</i>	<i>Tan</i>	<i>ll</i>
<i>0931</i>	<i>2</i>	<i>6.87</i>	<i>21.7</i>	<i>575</i>	<i>Cloudy</i>	<i>ll</i>
<i>0933</i>	<i>3</i>	<i>6.87</i>	<i>21.5</i>	<i>580</i>	<i>ll</i>	<i>ll</i>
<i>0936</i>	<i>4</i>	<i>6.85</i>	<i>21.7</i>	<i>584</i>	<i>ll</i>	<i>ll</i>
<i>0938</i>	<i>5</i>	<i>6.82</i>	<i>21.6</i>	<i>588</i>	<i>ll</i>	<i>ll</i>
<i>0940</i>	<i>6</i>	<i>6.86</i>	<i>21.4</i>	<i>587</i>	<i>ll</i>	<i>ll</i>

Purge Method	<i>Disp Bailer</i>		
Sample Method	<i>- Same -</i>	Well Integrity	
Sample Time	<i>0945</i>	Dissolved O ₂	
<i>- OAKTON -</i>			

CAL TECH Environmental Laboratories



6814 Rosecrans Avenue Paramount CA 90725-314
 Telephone (562) 272-2700 Fax (562) 272-7339

ANALYTICAL RESULTS*

CTEL Project No: CT214-0304159
Client Name: Advanced Geo Environmental, Inc
 837 Shaw Road
 Stockton, CA 95215
Attention: Mr Bill Little

Phone:(209) 467-1006

Fax: (209) 467-1118

Project ID:
Project Name: Sutter Office Center

Date Sampled: 04/24/03 @ 10 30 am
Date Received: 04/29/03 @ 08 00 am
Date Analyzed: 04/29/03

Matrix Water

Laboratory ID:	0304-159-1	0304-159-2	0304-159-3	Method	Units:	Detection Limit
Client Sample ID:	MW 1	MW 2	MW 3			
Dilution	1-10	1	1			
TPH - Gasoline	6600	ND	ND	EPA 8015M	ug/L	50
TPH - Diesel	0.12	ND	ND	EPA 8015M	mg/L	0.05
VOC. 8260B						
Dilution	1-10	1	1			
Methyl-tert-butyl-ether(MtBE)	ND<1	ND	ND	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND<10	ND	ND	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND<1	ND	ND	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND<1	ND	ND	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND<1	ND	ND	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND<0.5	ND	ND	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND<0.5	ND	ND	SW846 8260B	ug/L	0.5
Benzene	490	ND	ND	SW846 8260B	ug/L	0.5
Toluene	40	ND	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	1200	ND	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	2500	ND	ND	SW846 8260B	ug/L	0.6
o-Xylene	190	ND	ND	SW846 8260B	ug/L	0.6
Ethanol	ND<50	ND	ND	SW846 8260B	ug/L	50
Methanol	ND<1000	ND	ND	SW846 8260B	ug/L	1000

ND = Not Detected at the indicated Detection Limit

R. Tejirian

Greg Tejirian
 Laboratory Director

*The results are based upon the sample received

Cal Tech Environmental Laboratories, Inc ELAP ID # 2424

CAL TECH Environmental Laboratories



6814 Rosecrans Avenue Paramount CA 90703-6
Telephone (562) 272-2700 Fax (562) 272-2700

QA/QC Report

Method 8015M
Matrix Water
Date Analyzed 4/29/03
Units ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec	LCSD % Rec	Limits	RPD
TPH - Gasoline	1126	1038	1000	113	104	60-140	8
TPH - Diesel	2066	2136	2000	103	107	60-140	4

Perimeters	Blank	Limits	RPD
TPH - Gasoline	0	60-140	
TPH - Diesel	0	60-140	

LCS Laboratory Control Standard
LCSD Laboratory Control Standard Duplicate

RPD Relative Percent Difference of LCS and LCSD

CAL TECH Environmental Laboratories



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QA/QC Report

Method 8260B
 Matrix Water
 Date Analyzed 4/29/03
 Units ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec	LCSD % Rec	Limits	RPD
1,1-Dichloroethene	49	48	50	98	96	60-140	2
Benzene	44	44	50	88	88	60-140	0
Trichloroethene	46	45	50	92	90	60-140	2
Toluene	46	43	50	92	86	60-140	6
Chlorobenzene	52	50	50	104	100	60-140	4
m,p-Xylenes	106	98	100	106	98	60-140	8

LCS Laboratory Control Standard
 LCSD Laboratory Control Standard Duplicate

RPD Relative Percent Difference of LCS and LCSD

Perimeters	Blank	Limits	RPD
1,1-Dichloroethene	0	70-130	
Benzene	0	70-130	
Trichloroethene	0	70-130	
Toluene	0	70-130	
Chlorobenzene	0	70-130	
m,p-Xylenes	0	70-130	

