



20 - 451

August 25, 2002

Alameda County
SEP 0 8 2003
Environmental Health

QUARTERLY GROUNDWATER MONITORING REPORT
JULY 2003 GROUNDWATER SAMPLING
ASE JOB NO. 3411
at
Hutch's Carwash
17945 Hesperian Boulevard
San Lorenzo, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
208 West El Pintado Road
Danville, CA 94526
(925) 820-9391

1.0 INTRODUCTION

The following is a report detailing the results of the July 2003 semi-annual groundwater sampling at the Hutch's Carwash property located at 17945 Hesperian Boulevard in San Lorenzo, California (Figures 1 and 2).

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On July 25, 2003, ASE measured the depth to water in each site 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. No free-floating hydrocarbons or sheen were observed in any of the monitoring wells. Groundwater elevation data is presented in Table One.

The groundwater flow is to the northwest at a gradient of 0.024-feet/foot. Groundwater elevation (potentiometric surface) contours are plotted on Figure 2.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

On July 25, 2003, ASE collected groundwater samples from monitoring well MW-1 for analyses. Monitoring well MW-3 is no longer being sampled because hydrocarbons have not been detected since its installation. Monitoring well MW-2 is also no longer being sampled in accordance with a letter from the Alameda County Health Care Services Agency (ACHCSA) dated August 12, 2002 stating MW-2 may be excluded from further sampling events until further notice. Prior to sampling, monitoring well MW-1 was purged of three well casing volumes of groundwater. The pH, temperature, and conductivity of the purge water were monitored during evacuation, and samples were not collected until these parameters stabilized. Samples were collected using a dedicated polyethylene bailer. The groundwater samples were decanted from the bailer into 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, labeled, and stored on ice for transport to Severn Trent Laboratories (STL) San Francisco, Inc. of Pleasanton, California under appropriate chain of custody documentation.

The well sampling purge water was contained in sealed and labeled 55-gallon steel drums. The well sampling field logs are included as Appendix A.

The groundwater samples were analyzed by STL San Francisco for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method

5030/8015 and benzene, toluene, ethyl benzene, and total xylenes (collectively known as BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020.

The analytical results are tabulated in Table Two, and copies of the certified analytical report and chain of custody form are included in Appendix B.

4.0 CONCLUSIONS

The groundwater samples collected from monitoring well MW-1 contained 520 parts per billion (ppb) TPH-G, 15 ppb benzene, 11 ppb ethyl benzene, 1 ppb total xylenes, and 250 ppb MTBE. Monitoring well MW-2 was removed from the sampling schedule in October 2002 in accordance with a letter from the ACHCSA dated August 12, 2002. Monitoring well MW-3 was removed from the sampling schedule in January 2001 because hydrocarbons had not been detected since its installation.

The benzene and MTBE concentrations in groundwater samples collected from monitoring well MW-1 exceeded the California Department of Health Services (DHS) maximum contaminant levels (MCLs) for drinking water. However, the benzene and MTBE concentrations did not exceed California Regional Water Quality Control Board, San Francisco Bay Region (CRWQCB) Environmental Screening Levels (ESLs) presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater" document dated July 2003 where water is not a current or potential source of drinking water.

In general, hydrocarbon concentrations detected in groundwater samples collected from monitoring well MW-1 this quarter decreased from previous results.

5.0 RECOMMENDATIONS

ASE recommends continued semi-annual monitoring of the site. The next sampling event is scheduled for January 2004. ASE will also complete the requested area well survey once we receive a signed letter from the ACHCSA requesting this survey. The signed letter is required to access state records.

6.0 REPORT LIMITATIONS

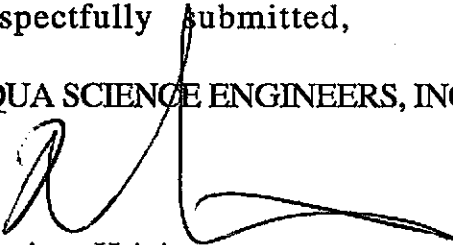
The results presented in this report represent conditions at the time of groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

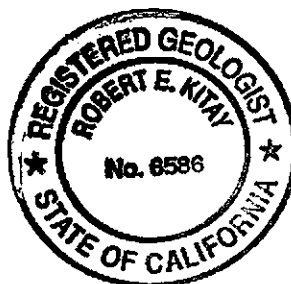
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

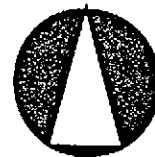

Damian Hriciga
Project Geologist


Robert E. Kitay, R.G., R.E.A.
Senior Geologist

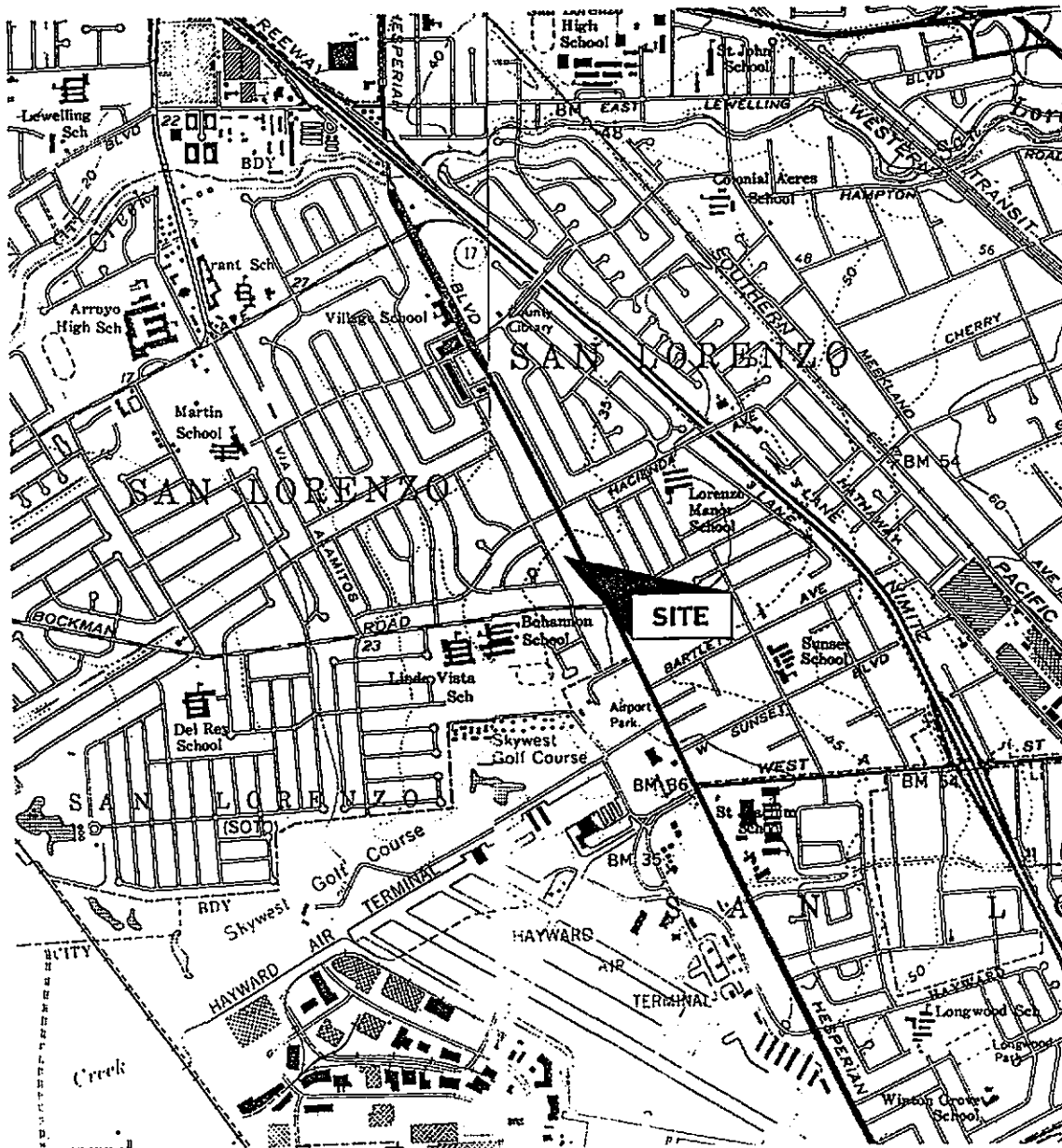


Attachments: Figures 1 and 2
Appendices A and B

cc: Mr. Kirk Hutchison, Hutch's Car Wash
Mr. Scott Seery, Alameda County Health Care Services Agency
Mr. Chuck Headlee, California Regional Water Quality Control Board



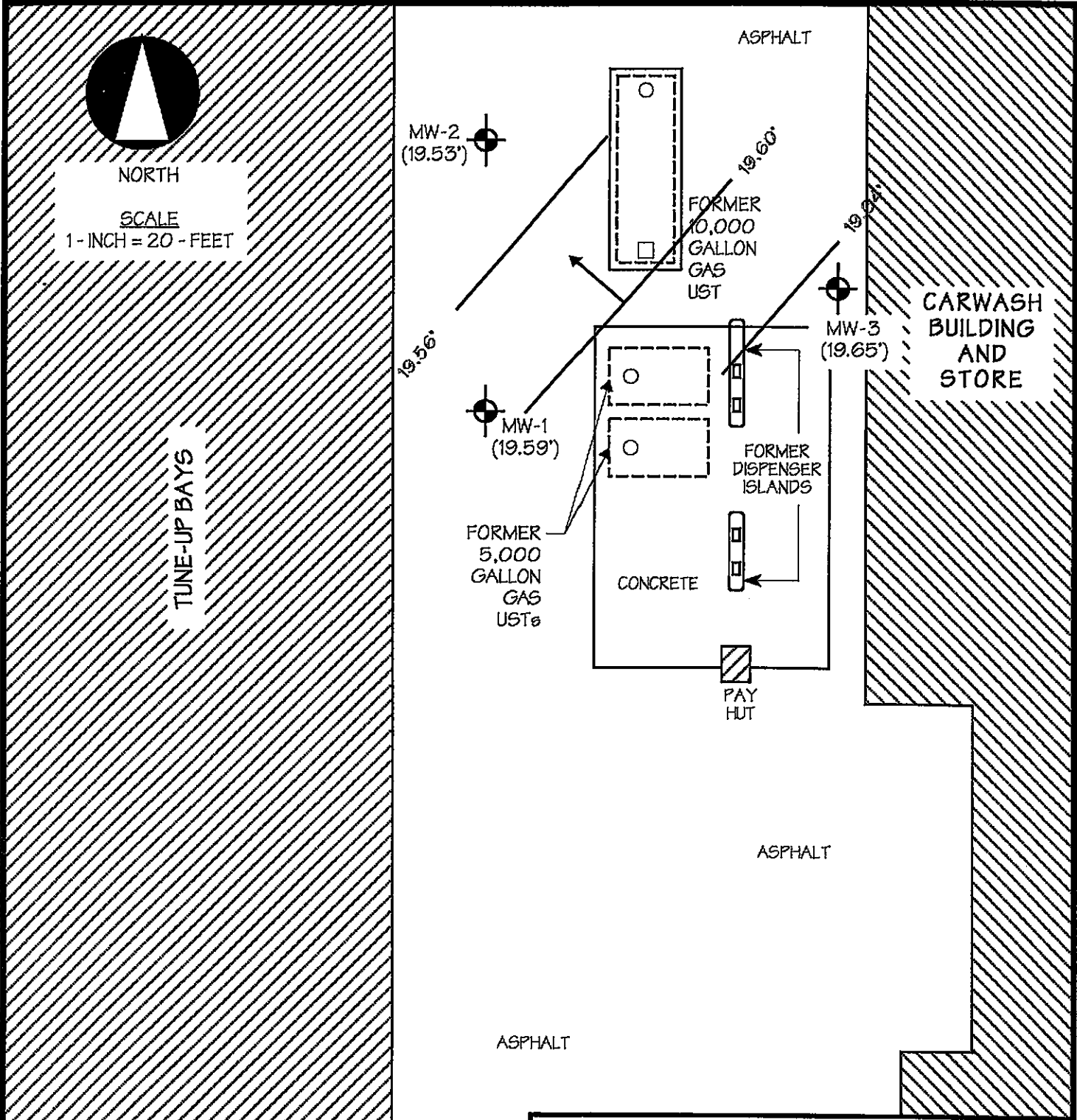
NORTH
NOT TO SCALE



LOCATION MAP

Hutch's Carwash
17945 Hesperian Boulevard
San Lorenzo, California

AQUA SCIENCE ENGINEERS, INC. Figure 1



LEGEND



MW-1
(19.59')

Monitoring well with
groundwater elevation



Groundwater elevation
contour

GROUNDWATER ELEVATION
CONTOUR MAP -7/25/03

HUTCH'S CARWASH
17945 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

FIGURE 2

TABLE ONE
Groundwater Elevation Data

Well I.D.	Date of Measurement	Top of Casing Elevation (relative to project datum)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-1	10-06-99	35.00	15.58	19.42
	01-13-00		15.58	19.42
	04-12-00		14.75	20.25
	07-19-00		15.29	19.71
	10-25-00		15.56	19.44
	01-16-01		15.22	19.78
	04-04-01		15.05	19.95
	07-06-01		15.49	19.51
	10-01-01		15.78	19.22
	01-07-02		13.83	21.17
	04-02-02		14.83	20.17
	07-09-02		15.41	19.59
	10-01-02		15.70	19.30
	01-24-03		14.69	20.31
	07-25-03		15.41	19.59
MW-2	10-06-99	35.21	15.84	19.37
	01-13-00		15.78	19.43
	04-12-00		14.94	20.27
	07-19-00		15.54	19.67
	10-25-00		15.81	19.40
	01-16-01		15.50	19.71
	04-04-01		15.28	19.93
	07-06-01		15.73	19.48
	10-01-01		16.06	19.15
	01-07-02		14.08	21.13
	04-02-02		15.04	20.17
	07-09-02		15.66	19.55
	10-01-02		15.96	19.25
	01-24-03		14.90	20.31
	07-25-03		15.68	19.53

TABLE ONE
Groundwater Elevation Data

Well I.D.	Date of Measurement	Top of Casing Elevation (relative to project datum)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-3	10-06-99	34.47	14.98	19.49
	01-13-00		14.98	19.49
	04-12-00		14.09	20.38
	07-19-00		14.70	19.77
	10-25-00		14.98	19.49
	01-16-01		14.58	19.89
	04-04-01		14.43	20.04
	07-06-01		14.85	19.62
	10-01-01		15.21	19.26
	01-07-02		13.24	21.23
	04-02-02		14.20	20.27
	07-09-02		14.81	19.66
	10-01-02		15.12	19.35
	01-24-03		14.05	20.42
	07-25-03		14.82	19.65

TABLE TWO
Certified Analytical Results of GROUNDWATER Samples
All results are in parts per billion

Well	Date Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
MW-1	10-06-99	1,500	3.3	2.3	27	72	120
	01-13-00	1,500	15	19	19	33	650
	04-12-00	1,700	18	13	45	79	2,600
	07-19-00	2,200	31	< 5.0	81	100	2,000
	10-25-00	3,300	20	< 5.0	9.8	9.4	3,300
	01-16-01	4,100	34	14	60	120	1,300
	04-04-01	2,900	14	< 0.5	34	32	2,000
	07-06-01	1,300	4.4	< 0.5	12	13	700
	10-01-01	1,100	4.1	< 0.5	18	19	520
	01-07-02	1,400	34	< 0.5	13	15	1,300
	04-02-02	1,900	30	6.7	24	30	1,000
	07-09-02	1,500	26	< 5.0	12	8.6	820
	10-01-02	830	3.6	< 2.5	7.4	2.9	520
	01-24-03	1,300	6.2	< 5.0	12	< 5.0	680
	07-25-03	520	15	< 1.0	11	1.0	250
MW-2	10-06-99	< 50	< 0.5	< 0.5	< 0.5	< 0.5	18
	01-13-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	16
	04-12-00	< 100	< 1.0	< 1.0	< 1.0	< 1.0	240
	07-19-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	10-25-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	6.0
	01-16-01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	8.2
	04-04-01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	07-06-01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	5.9
	10-01-01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	21
	01-07-02	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	04-02-02	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
07-09-02	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	
10-01-02	No	Longer	Sampled				

TABLE TWO
Certified Analytical Results of GROUNDWATER Samples
 All results are in **parts per billion**

Well	Date Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
MW-3	10-06-99	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	01-13-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	04-12-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	07-19-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	10-25-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	01-16-01	No	Longer	Sampled			
DHS MCL		NE	1	150	700	1,750	13
ESL		400	46	130	290	13	1,800

Notes:

- Most recent concentrations are in **bold**.
- Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.
- DHS MCL = California Department of Health Services maximum contaminant level for drinking water
- ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.
- NE = DHS MCL not established

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

Project Name and Address: HUTCH'S
 Job #: 3411 Date of sampling: 7/25/03
 Well Name: MW-1 Sampled by: PH
 Total depth of well (feet): 25.4 Well diameter (inches): 2
 Depth to water before sampling (feet): 15.41
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 9.99
 Number of gallons per well casing volume (gallons): 1.7
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5.1
 Equipment used to purge the well: BALER
 Time Evacuation Began: 1000 Time Evacuation Finished: 1015
 Approximate volume of groundwater purged: 5.1
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1020
 Depth to water at time of sampling: 15.42
 Percent recovery at time of sampling: _____
 Samples collected with: BALER
 Sample color: CLOUDY Odor: MILD HYDRO CARBON
 Description of sediment in sample: SILT

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1.7</u>	<u>66.6</u>	<u>6.49</u>	<u>778</u>
<u>3.4</u>	<u>66.2</u>	<u>6.65</u>	<u>782</u>
<u>5.1</u>	<u>66.2</u>	<u>6.51</u>	<u>780</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-1</u>	<u>3</u>	<u>400ml GLASS</u>	<u>NCC</u>	<u>Y</u>	<u>-</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



WELL SAMPLING FIELD LOG

Project Name and Address: 407CH'S
 Job #: 3411 Date of sampling: 7/25/03
 Well Name: MU-2 Sampled by: DH
 Total depth of well (feet): _____ Well diameter (inches): 2
 Depth to water before sampling (feet): 15.68
 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: _____
 Required 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: _____ Color: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Icdd?	Analysis
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

NOT SAMPLED THIS QUARTER



WELL SAMPLING FIELD LOG

Project Name and Address: HUTCH'S
 Job #: 3411 Date of sampling: 7/25/03
 Well Name: MW-3 Sampled by: DH
 Total depth of well (feet): _____ Well diameter (inches): 2
 Depth to water before sampling (feet): 14.82
 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: _____
 Required 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: _____ Color: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

NOT SAMPLED THIS QUARTER

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

Aqua Science Engineers, Inc.

July 31, 2003

208 West El Pintado Road
Danville, CA 94526

Attn.: Robert Kitay
Project: Hutchs
Site: San Lorenzo

Dear Mr. Kitay,

Attached is our report for your samples received on 07/25/2003 11:30
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
09/08/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Hutchs

Received: 07/25/2003 11:30

Site: San Lorenzo

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/25/2003 10:20	Water	1

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/30/2003 15:15

Page 1 of 6

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Hutchs

Received: 07/25/2003 11:30

Site: San Lorenzo

Prep(s): 5030	Test(s): 8015M
5030	8021B
Sample ID: MW-1	Lab ID: 2003-07-0768 - 1
Sampled: 07/25/2003 10:20	Extracted: 7/29/2003 11:22
Matrix: Water	QC Batch#: 2003/07/29-01 01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	520	100	ug/L	2.00	07/29/2003 11:22	g
Benzene	15	1.0	ug/L	2.00	07/29/2003 11:22	
Toluene	ND	1.0	ug/L	2.00	07/29/2003 11:22	
Ethyl benzene	11	1.0	ug/L	2.00	07/29/2003 11:22	
Xylene(s)	1.0	1.0	ug/L	2.00	07/29/2003 11:22	
MTBE	250	10	ug/L	2.00	07/29/2003 11:22	
Surrogates(s)						
Trifluorotoluene	92.9	58-124	%	2.00	07/29/2003 11:22	
4-Bromofluorobenzene-FID	90.2	50-150	%	2.00	07/29/2003 11:22	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/30/2003 15:15

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Hutchs

Received: 07/25/2003 11:30

Site: San Lorenzo

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2003/07/29-01.01-003

Water

Test(s): 8015M

QC Batch # 2003/07/29-01.01

Date Extracted: 07/29/2003 08:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/29/2003 08:15	
Benzene	ND	0.5	ug/L	07/29/2003 08:15	
Toluene	ND	0.5	ug/L	07/29/2003 08:15	
Ethyl benzene	ND	0.5	ug/L	07/29/2003 08:15	
Xylene(s)	ND	0.5	ug/L	07/29/2003 08:15	
MTBE	ND	5.0	ug/L	07/29/2003 08:15	
Surrogates(s)					
Trifluorotoluene	90.8	58-124	%	07/29/2003 08:15	
4-Bromofluorobenzene-FID	89.6	50-150	%	07/29/2003 08:15	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/30/2003 15:15

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Hutchs

Received: 07/25/2003 11:30

Site: San Lorenzo

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2003/07/29-01.01

LCS 2003/07/29-01.01-004

Extracted: 07/29/2003

Analyzed: 07/29/2003 08:46

LCSD 2003/07/29-01.01-005

Extracted: 07/29/2003

Analyzed: 07/29/2003 09:17

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	97.7	98.0	100.0	97.7	98.0	0.3	77-123	20		
Toluene	95.4	96.2	100.0	95.4	96.2	0.8	78-122	20		
Ethyl benzene	94.9	96.2	100.0	94.9	96.2	1.4	70-130	20		
Xylene(s)	283	286	300	94.3	95.3	1.1	75-125	20		
Surrogates(s)										
Trifluorotoluene	492	508	500	98.4	101.6		58-124			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/30/2003 15:15

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Hutchs

Received: 07/25/2003 11:30

Site: San Lorenzo

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch #: 2003/07/29-01.01

LCS 2003/07/29-01.01-006

Extracted: 07/29/2003

Analyzed: 07/29/2003 09:47

LCSD 2003/07/29-01.01-007

Extracted: 07/29/2003

Analyzed: 07/29/2003 10:18

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	513	546	500	102.6	109.2	6.2	75-125	20		
<i>Surrogates(s)</i>										
4-Bromofluorobenzene-FID	474	482	500	94.8	96.4		50-150			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/30/2003 15:15

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Hutchs

Received: 07/25/2003 11:30

Site: San Lorenzo

Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 07 - 0768

Checklist completed by: (initials) DSH Date: 07, 25 /03

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples
Yes ___ No ___ Not Present

Chain of custody present?
Yes No ___

Chain of custody signed when relinquished and received?
Yes No ___

Chain of custody agrees with sample labels?
Yes No ___

Samples in proper container/bottle?
Yes No ___

Sample containers intact?
Yes No ___

Sufficient sample volume for indicated test?
Yes No ___

All samples received within holding time?
Yes No ___

Container/Temp Blank temperature in compliance (4° C ± 2)?
Temp 60 °C Yes No ___

Water - VOA vials have zero headspace?
No VOA vials submitted ___ Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____ / _____ /03

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

