



November 5, 2002

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QUARTERLY GROUNDWATER MONITORING REPORT
OCTOBER 2002 GROUNDWATER SAMPLING
ASE JOB NO. 3412

at
Former Chan's Shell Station
726 Harrison Street
Oakland, CA 94607

Alameda County
NOV 14 2002
Environmental Health

Prepared by:
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1.0 INTRODUCTION

Site Location (Site), See Figure 1

Former Chan's Shell Station
726 Harrison Street
Oakland, CA 94602
(510) 444-6583

Responsible Party

Kin Chan
4328 Edgewood Avenue
Oakland, CA 94602

Environmental Consulting Firm

Aqua Science Engineers, Inc. (ASE)
208 W. El Pintado
Danville, CA 94526
Contact: Robert Kitay, Senior Geologist
(925) 820-9391

Agency Review

Contact: Mr. Barney Chan
Alameda County Health Care Services Agency (ACHCSA)
1131 Harbor Bay Pkwy., Suite 250
Alameda, CA 94502
(510) 567-6700

California Regional Water Quality Control Board (RWQCB)

San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612
Contact: Mr. Chuck Headlee
(510) 622-2433

The following is a report detailing the results of the October 2002 quarterly groundwater sampling at the former Chan's Shell Station. This sampling was conducted as required by the ACHCSA and RWQCB. ASE has prepared this report on behalf of Kin Chan, property owner. This report is intended to supplement the ASE report: "Report of Soil and Groundwater Assessment" dated January 8, 1999.

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On October 9, 2002, ASE measured the depth to groundwater in five site monitoring wells and one site extraction 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 site well. Groundwater elevation data is presented in Table One. A groundwater potentiometric surface map is presented as Figure 2. The groundwater flow direction is generally to the south/southwest with a gradient of approximately 0.0095-feet/foot.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Prior to sampling, monitoring wells MW-1, MW-3, MW-4, MW-5, and extraction well EW-1 were purged of three well casing volumes of groundwater using dedicated polyethylene bailers or a submersible pump. Groundwater monitoring well MW-2 is no longer being sampled at the site in accordance with ASE's recommendation in the April 2001 quarterly groundwater monitoring report and the May 14, 2001 letter from the ACHCSA. Petroleum hydrocarbon odors were noted during the purging and sampling of monitoring wells MW-1, MW-4, MW-5, and extraction well EW-1. The parameters pH, temperature, and conductivity were monitored during the well purging, and samples were not collected until these parameters stabilized. Groundwater samples were collected from each well using dedicated polyethylene bailers. The samples were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid. The samples were capped without headspace, labeled, and placed in coolers with wet ice for transport to Severn Trent Laboratories (STL) San Francisco, of Pleasanton California (ELAP #1049) under appropriate chain-of-custody documentation. Well sampling field logs are presented in Appendix A.

The well purge water was placed into 55-gallon steel drums, labeled, and left on-site for temporary storage until proper off-site disposal could be arranged.

The groundwater samples were analyzed by STL San Francisco for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 5030/8015M, benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) by EPA Method 8021B and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. The analytical results for this and previous sampling

periods are presented in Table Two. The certified analytical report and chain-of-custody documentation are included as Appendix B.

4.0 CONCLUSIONS

In general, the groundwater samples had hydrocarbon concentrations consistent with previous findings and remain elevated. The TPH-G, BTEX and/or MTBE concentrations that were detected in groundwater samples collected from all the monitoring wells sampled and extraction well EW-1 exceeded Risk Based Screening Levels (RBSLs) for those compounds as presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated December 2001.

5.0 RECOMMENDATIONS

ASE recommends continued groundwater monitoring on a quarterly basis. The next groundwater sampling is scheduled for January 2003. ASE will be submitting costs to the Underground Storage Tank Cleanup Fund for pre-approval to conduct a soil overexcavation as outlined in ASE's Remedial Action Plan (RAP) during the next quarter.

6.0 REPORT LIMITATIONS

The results presented in 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 former 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 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, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Erik H. Paddleford
Associate Geologist



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

Attachments: Figures 1 and 2
Appendices A and B

cc: Mr. Barney Chan, Alameda County Health Care Services
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region



NORTH

SCALE

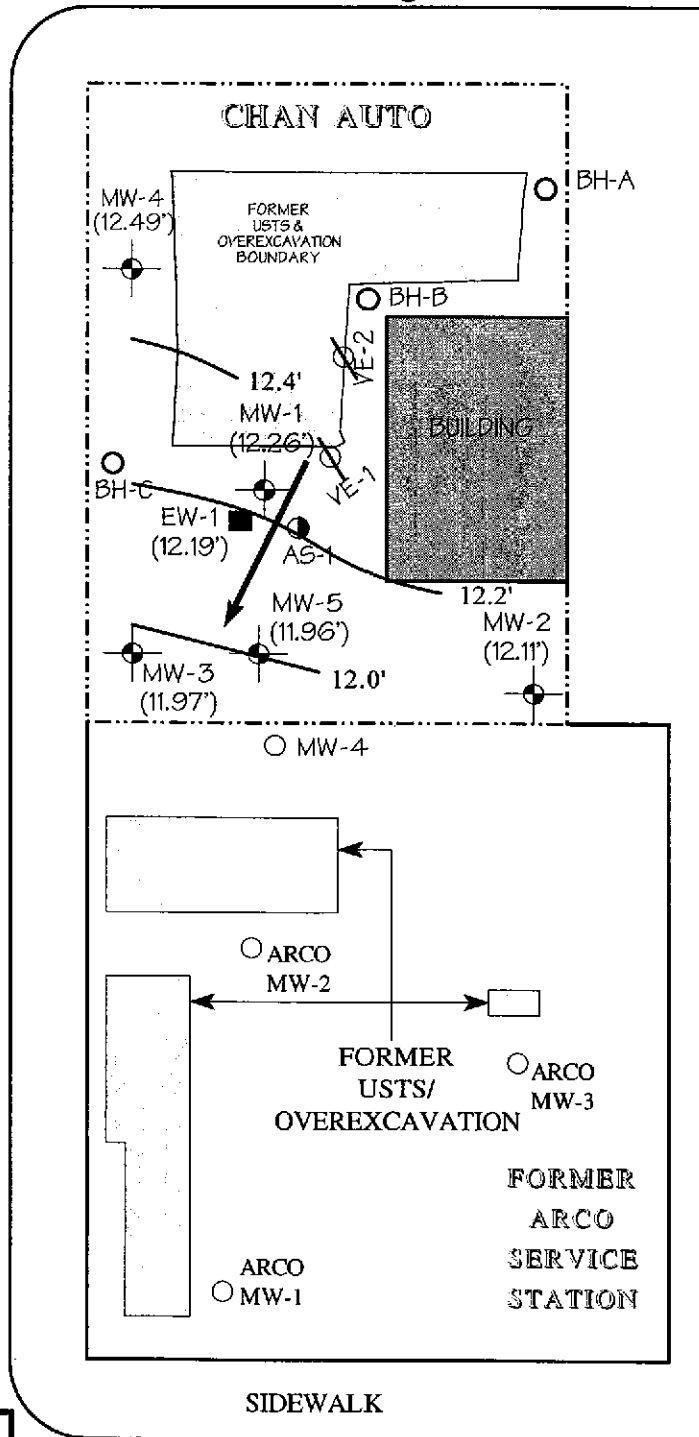
1" = 30'

8TH STREET

Unocal
MW-7

Unocal
MW-8

HARRISON STREET



ARCO
○ MW-7

LEGEND



Approx. Groundwater Flow Direction



ASE Monitoring Well

MW-1

(11.97) Groundwater elevation, relative to MSL



Groundwater elevation contour

7TH STREET

GROUNDWATER ELEVATION
CONTOUR MAP - 10/9/02

726 HARRISON STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS

Figure 2

TABLE ONE
Groundwater Elevation Data
Chan's Former Shell Station

Well ID	Date of Measurement	Top of Casing Elevation (relative to Project Datum)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-1	12/15/1998	31.95	17.32	14.63
	3/4/1999		15.52	16.43
	6/17/1999		16.9	15.05
	8/27/1999		17.39	14.56
	12/9/1999		18.03	13.92
	3/7/2000		15.11	16.84
	6/7/2000		16.66	15.29
	10/11/2000		18.08	13.87
	1/18/2001		17.96	13.99
	4/5/2001		16.35	15.60
	7/17/2001	16.94	15.01	
	10/5/2001	28.98	17.35	11.63
	1/18/2002		15.40	13.58
	4/11/2002		15.76	13.22
	7/8/2002		16.17	12.81
10/9/2002		16.72	12.26	
MW-2	12/15/1998	32.40	18.03	14.37
	3/4/1999		16.11	16.29
	6/17/1999		17.72	14.68
	8/27/1999	Inaccessible		
	12/9/1999	Inaccessible		
	3/7/2000	Inaccessible		
	6/7/2000		17.67	14.73
	10/11/2000		18.91	13.49
	1/18/2001		18.66	13.74
	4/5/2001		16.97	15.43
	7/17/2001		17.54	14.86
	10/5/2001	29.44	17.98	11.46
	1/18/2002		15.87	13.57
	4/11/2002		16.36	13.08
	7/8/2002		16.72	12.72
10/9/2002		17.33	12.11	
MW-3	12/15/1998	31.61	17.26	14.35
	3/4/1999		15.47	16.14
	6/17/1999		16.92	14.69
	8/27/1999		17.40	14.21
	12/9/1999		18.01	13.60
	3/7/2000		16.15	15.46
	6/7/2000		16.85	14.76
	10/11/2000		18.07	13.54
	1/18/2001		17.89	13.72
	4/5/2001		16.21	15.40
	7/17/2001	16.90	14.71	
	10/5/2001	28.64	17.32	11.32
	1/18/2002		15.35	13.29
	4/11/2002		15.82	12.82
	7/8/2002		16.67	11.97
10/9/2002				

TABLE ONE
Groundwater Elevation Data
Chan's Former Shell Station

Well ID	Date of Measurement	Top of Casing Elevation (relative to Project Datum)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-4	12/15/1998	32.53	17.59	14.94
	3/4/1999		15.88	16.65
	6/17/1999		17.14	15.39
	8/27/1999		17.65	14.88
	12/9/1999		18.28	14.25
	3/7/2000		15.41	17.12
	6/7/2000		17.09	15.44
	10/11/2000		18.33	14.20
	1/18/2001		18.23	14.30
	4/5/2001		16.69	15.84
	7/17/2001	17.32	15.21	
	10/5/2001	29.58	17.71	11.87
	1/18/2002		15.85	13.73
	4/11/2002		16.14	13.44
	7/8/2002		16.56	13.02
10/9/2002	17.09		12.49	
MW-5	8/29/2001	29.06	17.42	11.64
	1/18/2002		15.68	13.38
	4/11/2002		16.17	12.89
	7/8/2002		16.51	12.55
	10/9/2002		17.10	11.96
EW-1	1/18/2002	28.89	15.35	13.54
	4/11/2002		15.73	13.16
	7/8/2002		16.13	12.76
	10/9/2002		16.70	12.19

TABLE TWO
Certified Analytical Results for GROUNDWATER Samples
Chan's Former Shell Station
All results are in parts per billion (ppb)

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
MW-1						
7/3/1997	18,000	2,700	350	450	900	7,400
12/5/1998	18,000	1,500	270	260	560	14,000
3/4/1999	44,000	2,800	400	440	960	43,000
6/17/1999	33,000	2,200	250	460	660	25,000
8/27/1999	6,000	1,000	97	190	230	14,000/ 16,000*
12/9/1999	15,000	1,500	160	220	420	17,000
3/7/2000	9,300	1,500	210	66	530	12,000
6/7/2000	26,000**	1,700	< 250	360	580	30,000
10/11/2000	13,000**	1,600	< 100	140	160	19,000
1/18/2001	14,000**	450	< 100	110	230	9,600
4/5/2001	38,000	2,200	180	290	590	35,000
7/17/2001	35,000**	1,800	< 100	300	170	35,000
10/5/2001	17,000	1,500	210	420	790	27,000
1/18/2002	18,000	1,500	120	160	220	22,000
4/11/2002	41,000	2,700	210	340	380	30,000
7/8/2002	36,000	2,800	140	360	300	31,000
10/9/2002	30,000	1,700	310	< 100	< 100	19,000
MW-2						
12/5/1998	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
3/4/1999		Inaccessible due to car parked over well				
6/17/1999	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
8/27/1999		Inaccessible due to car parked over well				
12/9/1999		Inaccessible due to car parked over well				
3/7/2000		Inaccessible due to car parked over well				
6/7/2000	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10/11/2000	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/18/2001	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
4/5/2001	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/17/2001		No Longer Sampled				
MW-3						
12/5/1998	6,500	< 50	50	60	50	3,900
3/4/1999	2,800	< 25	< 25	< 25	< 25	1,600
6/17/1999	1,000	< 10	< 10	< 10	< 10	1,400
8/27/1999	230	< 0.5	0.51	0.5	1	1,500/ 1,600*
12/9/1999	870**	< 0.5	< 0.5	< 0.5	< 0.5	2,100
3/7/2000	150**	4	< 0.5	< 0.5	< 0.5	830
6/7/2000	140**	< 0.5	< 0.5	< 0.5	< 0.5	1,100
10/11/2000	620**	< 5.0	< 5.0	< 5.0	< 5.0	1,500
1/18/2001	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	1,000
4/5/2001	1,700**	< 5.0	< 5.0	< 5.0	< 5.0	1,900
7/17/2001	1,400**	< 10	< 10	< 10	< 10	1,700
10/5/2001	< 1,000	< 10	< 10	< 10	< 10	1,700
1/18/2002	1,600	26	20	16	54	2,100
4/11/2002	2,600	21	16	< 10	21	2,300
7/8/2002	2,800	< 10	< 10	< 10	< 10	3,800
10/9/2002	6,000	< 50	< 50	< 50	< 50	4,900

TABLE TWO
Certified Analytical Results for GROUNDWATER Samples
Chan's Former Shell Station
All results are in parts per billion (ppb)

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
MW-4						
12/5/1998	880	3	< 0.5	< 0.5	< 0.5	950
3/4/1999	3,800	< 25	< 25	< 25	< 25	3,700
6/17/1999	2,700	< 25	< 25	< 25	< 25	2,700
8/27/1999	440	4.7	1.1	0.58	1.3	1,600/ 1,700*
12/9/1999	1,100**	< 2.5	< 2.5	< 2.5	< 2.5	1,700
3/7/2000	< 250	< 2.5	< 2.5	< 2.5	< 2.5	1,700
6/7/2000	530**	8.8	< 2.5	< 2.5	< 2.5	440
10/11/2000	700**	3.9	< 2.5	< 2.5	< 2.5	680
1/18/2001	2,000**	< 2.5	< 2.5	< 2.5	< 2.5	780
4/5/2001	810**	< 2.5	< 2.5	< 2.5	< 2.5	620
7/17/2001	880**	< 2.5	< 2.5	< 2.5	< 2.5	570
10/5/2001	550**	< 2.5	< 2.5	< 2.5	< 2.5	710
1/18/2002	960**	< 5.0	< 5.0	< 5.0	< 5.0	1,300
4/11/2002	1,100**	< 5.0	< 5.0	< 5.0	< 5.0	550
7/8/2002	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	890
10/9/2002	1,300**	< 5.0	< 5.0	< 5.0	< 5.0	880
MW-5						
8/29/2001	14,000	1,300	470	230	800	14,000
1/18/2002	24,000	3,200	1,300	390	1,500	5,700
4/11/2002	23,000	2,700	980	38	950	4,300
7/8/2002	19,000	3,300	25	360	1,100	2,100
10/9/2002	24,000	2,800	990	360	820	2,400
EW-1						
1/18/2002	11,000	1,000	< 100	220	350	6,700
4/11/2002	17,000	1,000	< 100	120	140	9,700
7/8/2002	21,000	1,300	< 100	< 100	200	12,000
10/9/2002	12,000	900	< 25	< 25	200	9,200
RBSL	400	46	130	290	13	1,800

Notes:

* EPA Method 8020/EPA Method 8260 (MTBE confirmation)

** Hydrocarbon reported in the gasoline range does not match the laboratory gasoline standard

RBSL = Risk Based Screening Levels presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

Most current data is in **Bold**

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory detection limit.

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

Project Name and Address: Chan Auto
 Job #: 3412 Date of sampling: 10/9/02
 Well Name: MW-1 Sampled by: ep
 Total depth of well (feet): 27.21 Well diameter (inches): 2
 Depth to water before sampling (feet): 16.72
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 10.49
 Number of gallons per well casing volume (gallons): 1.67
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5
 Equipment used to purge the well: sub pump
 Time Evacuation Began: 835 Time Evacuation Finished: 845
 Approximate volume of groundwater purged: 5
 Did the well go dry?: No After how many gallons: -
 Time samples were collected: 855
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: bailer
 Sample color: clear/grey Odor: strong
 Description of sediment in sample: silt/f. Sand

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>64.3</u>	<u>5.80</u>	<u>803</u>
<u>2</u>	<u>66.0</u>	<u>6.42</u>	<u>848</u>
<u>3</u>	<u>66.2</u>	<u>6.46</u>	<u>856</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-1</u>	<u>3</u>	<u>40 ml VVA</u>	<u>x</u>	<u>x</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Chan Auto
 Job #: 3412 Date of sampling: 10/9/02
 Well Name: MW-2 Sampled by: ep
 Total depth of well (feet): 27.0 Well diameter (inches): 2
 Depth to water before sampling (feet): 17.33
 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: _____ Odor: _____
 Description of sediment in sample: _____

CHEMICAL DATA

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

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: Chan Auto
 Job #: 3412 Date of sampling: 10/9/02
 Well Name: MW-3 Sampled by: ep
 Total depth of well (feet): 29.66 Well diameter (inches): 2
 Depth to water before sampling (feet): 16.67
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 12.99
 Number of gallons per well casing volume (gallons): 2
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 6
 Equipment used to purge the well: bailer
 Time Evacuation Began: 755 Time Evacuation Finished: 810
 Approximate volume of groundwater purged: 6
 Did the well go dry?: No After how many gallons: -
 Time samples were collected: 820
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: bailer
 Sample color: clear/brown Odor: none
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>66.4</u>	<u>6.44</u>	<u>637</u>
<u>2</u>	<u>66.6</u>	<u>6.42</u>	<u>637</u>
<u>3</u>	<u>66.8</u>	<u>6.41</u>	<u>638</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-3</u>	<u>3</u>	<u>40 ml VOA</u>	<u>X</u>	<u>X</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Chas Auto
 Job #: 3412 Date of sampling: 10/9/02
 Well Name: nv-4 Sampled by: ep
 Total depth of well (feet): 29.97 Well diameter (inches): 2
 Depth to water before sampling (feet): 17.09
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 12.88
 Number of gallons per well casing volume (gallons): 2
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 6
 Equipment used to purge the well: bailey
 Time Evacuation Began: 720 Time Evacuation Finished: 735
 Approximate volume of groundwater purged: 6
 Did the well go dry?: no After how many gallons: -
 Time samples were collected: 745
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: bailey
 Sample color: clear/brown Odor: slight
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>65.4</u>	<u>6.00</u>	<u>871</u>
<u>2</u>	<u>66.0</u>	<u>6.13</u>	<u>782</u>
<u>3</u>	<u>66.2</u>	<u>6.16</u>	<u>771</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>nv-4</u>	<u>3</u>	<u>40 ml VOA</u>	<u>x</u>	<u>x</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Chan Auto
 Job #: 3412 Date of sampling: 10/9/02
 Well Name: MW-5 Sampled by: EP
 Total depth of well (feet): 28.50 Well diameter (inches): 2
 Depth to water before sampling (feet): 17.10
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 11.4
 Number of gallons per well casing volume (gallons): 1.8
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5.4
 Equipment used to purge the well: bailer
 Time Evacuation Began: 955 Time Evacuation Finished: 1010
 Approximate volume of groundwater purged: 5.5
 Did the well go dry?: no After how many gallons: -
 Time samples were collected: 1020
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: bailer
 Sample color: clear / gray Odor: moderate
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>65.7</u>	<u>5.72</u>	<u>997</u>
<u>2</u>	<u>65.4</u>	<u>6.15</u>	<u>862</u>
<u>3</u>	<u>65.2</u>	<u>6.30</u>	<u>845</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-5</u>	<u>3</u>	<u>40 ml VOA</u>	<u>X</u>	<u>X</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Chan Auto
 Job #: 3412 Date of sampling: 10/9/02
 Well Name: EW-1 Sampled by: ep
 Total depth of well (feet): 28.45 Well diameter (inches): 7
 Depth to water before sampling (feet): 16.70
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 11.75
 Number of gallons per well casing volume (gallons): 7.6
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 23
 Equipment used to purge the well: sub pump
 Time Evacuation Began: 910 Time Evacuation Finished: 940
 Approximate volume of groundwater purged: 23
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 950
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: baiter
 Sample color: clear Odor: strang
 Description of sediment in sample: silt / f. Sand

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>65.4</u>	<u>6.56</u>	<u>639</u>
<u>2</u>	<u>65.2</u>	<u>6.52</u>	<u>613</u>
<u>3</u>	<u>65.0</u>	<u>6.47</u>	<u>609</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>GW-1</u>	<u>3</u>	<u>40 ml J&A</u>	<u>+</u>	<u>+</u>	

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

Submission#: 2002-10-0256

October 17, 2002

SEVERN

TRENT

LABORATORY

Aqua Science Engineers, Inc.

208 West El Pintado

Danville, CA 94526

Attn.: Erik Paddleford

Project#: 3412

Project: Chan Auto

STL San Francisco
1220 Quarry Ln
Pleasanton CA 94566

Tel.: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#:2496

Attached is our report for your samples received on 10/10/2002 17:51

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 11/24/2002 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@chromalab.com

Sincerely,



Vincent Vancil
Project Manager

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

208 West El Pintado

Danville, CA 94526

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

Project: 3412

Chan Auto

Received: 10/10/2002 17:51

SEVERN
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STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/09/2002 08:55	Water	1
MW-3	10/09/2002 07:55	Water	2
MW-4	10/09/2002 07:20	Water	3
MW-5	10/09/2002 10:20	Water	4
EW-1	10/09/2002 09:50	Water	5

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

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Chan Auto

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Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW-1
Sampled: 10/09/2002 08:55
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-10-0256 - 1
Extracted: 10/15/2002 12:58
QC Batch#: 2002/10/15-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	30000	10000	ug/L	200.00	10/15/2002 12:58	g
Benzene	1700	100	ug/L	200.00	10/15/2002 12:58	
Toluene	310	100	ug/L	200.00	10/15/2002 12:58	
Ethyl benzene	ND	100	ug/L	200.00	10/15/2002 12:58	
Xylene(s)	ND	100	ug/L	200.00	10/15/2002 12:58	
MTBE	19000	1000	ug/L	200.00	10/15/2002 12:58	
Surrogates(s)						
Trifluorotoluene	112.6	58-124	%	1.00	10/15/2002 12:58	
4-Bromofluorobenzene-FID	86.4	50-150	%	1.00	10/15/2002 12:58	

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

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Danville, CA 94526

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Project: 3412

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Received: 10/10/2002 17:51

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Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW-3
Sampled: 10/09/2002 07:55
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-10-0256 - 2
Extracted: 10/16/2002 12:37
QC Batch#: 2002/10/16-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6000	5000	ug/L	100.00	10/16/2002 12:37	g
Benzene	ND	50	ug/L	100.00	10/16/2002 12:37	
Toluene	ND	50	ug/L	100.00	10/16/2002 12:37	
Ethyl benzene	ND	50	ug/L	100.00	10/16/2002 12:37	
Xylene(s)	ND	50	ug/L	100.00	10/16/2002 12:37	
MTBE	4900	500	ug/L	100.00	10/16/2002 12:37	
Surrogates(s)						
Trifluorotoluene	112.2	58-124	%	100.00	10/16/2002 12:37	
4-Bromofluorobenzene-FID	85.6	50-150	%	100.00	10/16/2002 12:37	

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

208 West El Pintado

Danville, CA 94526

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

Project: 3412

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Received: 10/10/2002 17:51

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www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW-4
Sampled: 10/09/2002 07:20
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-10-0256 - 3
Extracted: 10/15/2002 13:59
QC Batch#: 2002/10/15-01:03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1300	500	ug/L	10.00	10/15/2002 13:59	g
Benzene	ND	5.0	ug/L	10.00	10/15/2002 13:59	
Toluene	ND	5.0	ug/L	10.00	10/15/2002 13:59	
Ethyl benzene	ND	5.0	ug/L	10.00	10/15/2002 13:59	
Xylene(s)	ND	5.0	ug/L	10.00	10/15/2002 13:59	
MTBE	880	50	ug/L	10.00	10/15/2002 13:59	
Surrogates(s)						
Trifluorotoluene	82.5	58-124	%	1.00	10/15/2002 13:59	
4-Bromofluorobenzene-FID	86.9	50-150	%	1.00	10/15/2002 13:59	

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford
208 West El Pintado
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan Auto

Received: 10/10/2002 17:51

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Fax: (925) 484-1096
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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW-5
Sampled: 10/09/2002 10:20
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-10-0256 - 4
Extracted: 10/15/2002 14:29
QC Batch#: 2002/10/15-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	24000	2500	ug/L	50.00	10/15/2002 14:29	
Benzene	2800	25	ug/L	50.00	10/15/2002 14:29	
Toluene	990	25	ug/L	50.00	10/15/2002 14:29	
Ethyl benzene	360	25	ug/L	50.00	10/15/2002 14:29	
Xylene(s)	820	25	ug/L	50.00	10/15/2002 14:29	
MTBE	2400	250	ug/L	50.00	10/15/2002 14:29	
Surrogates(s)						
Trifluorotoluene	105.6	58-124	%	1.00	10/15/2002 14:29	
4-Bromofluorobenzene-FID	89.1	50-150	%	1.00	10/15/2002 14:29	

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

208 West El Pintado

Danville, CA 94526

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

Project: 3412

Chan Auto

Received: 10/10/2002 17:51

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Fax: (925) 484-1096

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	EW-1	Lab ID:	2002-10-0256 - 5
Sampled:	10/09/2002 09:50	Extracted:	10/16/2002 13:09
Matrix:	Water	QC Batch#:	2002/10/16-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	12000	2500	ug/L	50.00	10/16/2002 13:09	
Benzene	900	25	ug/L	50.00	10/16/2002 13:09	
Toluene	ND	25	ug/L	50.00	10/16/2002 13:09	
Ethyl benzene	ND	25	ug/L	50.00	10/16/2002 13:09	
Xylene(s)	200	25	ug/L	50.00	10/16/2002 13:09	
MTBE	9200	250	ug/L	50.00	10/16/2002 13:09	
Surrogates(s)						
Trifluorotoluene	113.7	58-124	%	50.00	10/16/2002 13:09	
4-Bromofluorobenzene-FID	88.8	50-150	%	50.00	10/16/2002 13:09	

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

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Project: 3412

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Received: 10/10/2002 17:51

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2002/10/15-01.03-003

Water

Test(s): 8015M

QC Batch # 2002/10/15-01.03

Date Extracted: 10/15/2002 08:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/15/2002 08:25	
Benzene	ND	0.5	ug/L	10/15/2002 08:25	
Toluene	ND	0.5	ug/L	10/15/2002 08:25	
Ethyl benzene	ND	0.5	ug/L	10/15/2002 08:25	
Xylene(s)	ND	0.5	ug/L	10/15/2002 08:25	
MTBE	ND	5.0	ug/L	10/15/2002 08:25	
Surrogates(s)					
Trifluorotoluene	121.5	58-124	%	10/15/2002 08:25	
4-Bromofluorobenzene-FID	100.9	50-150	%	10/15/2002 08:25	

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

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Project: 3412

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Received: 10/10/2002 17:51

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2002/10/16-01.05-008

Water

Test(s): 8015M

QC Batch # 2002/10/16-01.05

Date Extracted: 10/16/2002 11:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/16/2002 11:36	
Benzene	ND	0.5	ug/L	10/16/2002 11:36	
Toluene	ND	0.5	ug/L	10/16/2002 11:36	
Ethyl benzene	ND	0.5	ug/L	10/16/2002 11:36	
Xylene(s)	ND	0.5	ug/L	10/16/2002 11:36	
MTBE	ND	5.0	ug/L	10/16/2002 11:36	
Surrogates(s)					
Trifluorotoluene	105.0	58-124	%	10/16/2002 11:36	
4-Bromofluorobenzene-FID	81.5	50-150	%	10/16/2002 11:36	

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

208 West El Pintado

Danville, CA 94526

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

Project: 3412

Chan Auto

Received: 10/10/2002 17:51

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Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2002/10/15-01.03

LCS 2002/10/15-01.03-004

Extracted: 10/15/2002

Analyzed: 10/15/2002 08:56

LCSD 2002/10/15-01.03-005

Extracted: 10/15/2002

Analyzed: 10/15/2002 09:26

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	96.0	84.2	100.0	96.0	84.2	13.1	77-123	20		
Toluene	94.4	82.3	100.0	94.4	82.3	13.7	78-122	20		
Ethyl benzene	94.0	83.2	100.0	94.0	83.2	12.2	70-130	20		
Xylene(s)	281	255	300	93.7	85.0	9.7	75-125	20		
Surrogates(s)										
Trifluorotoluene	509	420	500	101.8	84.0		58-124			

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

208 West El Pintado

Danville, CA 94526

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

Project: 3412

Chan Auto

Received: 10/10/2002 17:51

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www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/10/15-01.03

LCS 2002/10/15-01.03-006

Extracted: 10/15/2002

Analyzed: 10/15/2002 09:56

LCSD 2002/10/15-01.03-007

Extracted: 10/15/2002

Analyzed: 10/15/2002 10:26

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	509	489	500	101.8	97.8	4.0	75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	448	437	500	89.6	87.4		50-150			

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

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Project: 3412

Chan Auto

Received: 10/10/2002 17:51

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2002/10/16-01.05

LCS 2002/10/16-01.05-004

Extracted: 10/16/2002

Analyzed: 10/16/2002 09:09

LCSD 2002/10/16-01.05-005

Extracted: 10/16/2002

Analyzed: 10/16/2002 09:41

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	99.3	102	100.0	99.3	102.0	2.7	77-123	20		
Toluene	97.2	98.1	100.0	97.2	98.1	0.9	78-122	20		
Ethyl benzene	98.7	99.9	100.0	98.7	99.9	1.2	70-130	20		
Xylene(s)	298	302	300	99.3	100.7	1.4	75-125	20		
Surrogates(s)										
Trifluorotoluene	561	575	500	112.2	115.0		58-124			

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

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

Project: 3412

Chan Auto

Received: 10/10/2002 17:51

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/10/16-01.05

LCS 2002/10/16-01.05-006

Extracted: 10/16/2002

Analyzed: 10/16/2002 10:13

LCSD 2002/10/16-01.05-007

Extracted: 10/16/2002

Analyzed: 10/16/2002 10:45

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	521	547	500	104.2	109.4	4.9	75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	447	470	500	89.4	94.0		50-150			

Submission #: 2002-10-0256

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford

208 West El Pintado

Danville, CA 94526

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

Project: 3412

Chan Auto

Received: 10/10/2002 17:51



STL San Francisco
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Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Legend and Notes

Result Flag

g

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

2002-10-0256

Report To **Analysis Request**

Attn: E. Paddelford
Company: ASE
Address: Danville CA
Phone: 925-820-9391 Email:
Bill To: Sampled By:
Attn: Phone:

- TPH EPA - 8015/8021 8260B
 Gas w/ BTEX MTBE
Purgeable Aromatics
BTEX EPA - 8021 8260B
TEPH EPA 8015M Silica Gel
 Diesel Motor Oil Other
Fuel Tests EPA 8260B: Gas BTEX
 Five Oxymates DCA, EDB Ethanol
Purgeable Halocarbons (HVOCs) EPA 8021
Volatile Organics GC/MS (VOCs)
 EPA 8260B 624
Semi-volatiles GC/MS
 EPA 8270 625
Oil and Grease Petroleum (EPA 1664) Total
Pesticides EPA 8081 608
PCBs EPA 8082 608
PNAs by 8270 8310
CAM17 Metals (EPA 6010/7470/7471)
Metals: Lead LUFT RCRA Other
 W.E.T (STLC) TCLP
Hexavalent Chromium pH (24h hold time for H₂O)
 Spec Cond. Alkalinity TDS
Anions: Cl SO₄ NO₃ F Br NO₂ PO₄

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxymates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semi-volatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O) <input type="checkbox"/> Spec Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers
MW-1	10/9/02	855	W	HCl	<input checked="" type="checkbox"/>															3
MW-3	10/9/02	755			<input checked="" type="checkbox"/>															
MW-4	10/9/02	720			<input checked="" type="checkbox"/>															
MW-5	10/9/02	1020			<input checked="" type="checkbox"/>															
EW-1	10/9/02	950			<input checked="" type="checkbox"/>															5

Project Info.
Project Name: Chase Auto
Project#: 3412
PO#:
Credit Card#:
Temp: 4.0°C

Sample Receipt
of Containers:
Head Space:
Temp: 4.0°C
Conforms to record:

1) Relinquished by:
E. Paddelford
Signature _____ Time _____
E. Paddelford
Printed Name _____ Date _____
ASE
Company

2) Relinquished by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

3) Relinquished by:
[Signature] 1751
Signature _____ Time _____
B. Nounak 10/10/02
Printed Name _____ Date _____
STL-SF
Company

Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
Special Instructions / Comments: Global ID _____

1) Received by:
[Signature]
Signature _____ Time _____
[Signature]
Printed Name _____ Date _____
STL-SF
Company

2) Received by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

3) Received by:
Nounak 1751
Signature _____ Time _____
Nounak
Printed Name _____ Date _____
STL-SF 10-10-02
Company



STL San Francisco

Sample Receipt Checklist

Submission #: 2002- 10 - 0254

Checklist completed by: (initials) CR Date: 10, 11 /02

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 ($4^{\circ}C \pm 2$)? Yes No ___

Temp: 4.0 °C

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: _____ / _____ /02

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

