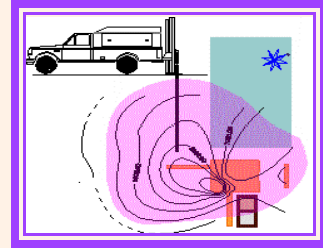


Franklin J. Goldman, CHG  
Environmental and Hydrogeological Consulting  
PO Box 59, Sonoma, CA 95476  
Phone: (707) 235-9979  
fjgoldmanchg@yahoo.com



April 04, 2006

**RECEIVED**

By DEHLOPTOXIC at 9:29 am, Jul 05, 2006

Barney M. Chan  
Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-9335

Telephone: (510) 567-6765  
FAX: (510) 337-9335

**Subject: Groundwater Monitoring of Hydrocarbons related to the Former Underground Storage Tanks at the FORMER BILL CHUN SERVICE STATION @ 2301 SANTA CLARA AVENUE, ALAMEDA, CA 94501**

Dear Barney:

This report summarizes the laboratory results of analyses performed for gasoline constituents in groundwater. This groundwater monitoring event represents a compilation of data covering the onsite wells and the down gradient wells installed on the Towata property. The lateral extent of the dissolved gasoline constituent plumes has been defined.

Call me if you have any questions.

Sincerely,

Franklin J. Goldman  
Certified Hydrogeologist No. 466



## GROUNDWATER FLOW DIRECTION

On March 13 & 14, 2006, a Slope Indicator water level meter was used to measure the depth to groundwater in the groundwater monitoring and extraction wells. The measurements were read to the nearest 100th of an inch from the top of the casing elevation as established by a certified land survey.

Groundwater was encountered at depths ranging from approximately between five (5) and eight (8) feet bgs with the exception of approximately ten (10) feet bgs measured in well BH. The predominant groundwater gradient flow direction is to the east at 0.04 feet/foot (See Figure 1 for Groundwater Gradient Flow and Direction Map) and (Table 1 for Depth to Water Level Measurements). The groundwater elevation measured in well BH is approximately 2 ½ feet deeper than the trends established by the monitoring wells in the immediate vicinity. If the water level identified in well BH is representative of a deeper groundwater zone, it would be indicative of downward vertical hydraulic gradients.

## WELL PURGING AND DEVELOPMENT

Depth to groundwater was measured prior to purging to use as a reference elevation. Purging of the wells was performed by the use of 1 3/4 inch diameter steel disposable check valve bailer. Each well was sampled after the well purging process which entailed the removal of approximately three (3) or more well volumes from each well, allowing the water level to recover to at least 80% of the original, static water level. Temperature, electrical conductivity, and pH were monitored so that the three parameters demonstrated an error difference of within 10% from one another, over three consecutive readings (See Appendix A for Sampling Event Logs). The recorded data was used to verify that a sufficient volume of groundwater had been removed from each well casing so that anomalies caused by remnant well casing storage would not preclude us from obtaining a groundwater sample which would be more representative of the aquifer contaminant distribution as a whole.

## GROUNDWATER SAMPLING FROM WELLS

Water samples were collected by lowering a plastic disposable bailer down the center of the well casing. Water samples were contained in 40-milliliter VOA vials through a low flow bottom draining plastic tube inserted into the bottom of the bailer for TPH-g, MTBE, and BTEX analyses. EPA Method 8260b for 5 oxygenates and two lead scavengers was used to confirm the presence of MTBE and other gasoline constituents. The samples were labeled and stored on ice until delivered, under chain-of-custody procedures, to American Analytics, Inc. of Chatsworth, California, a State-certified analytical laboratory.

## LABORATORY RESULTS OF HYDROCARBONS IN GROUNDWATER

Gasoline ranged organics (GROs) and benzene generally increased on the west side and decreased on the east side of the service station site. GROs and benzene appeared for the first time in well BL located at the north end of the Towata Property. GROs and benzene generally decreased in wells on the Towata property (See Appendix B for Laboratory Data Sheets) and (Table 2 for Historical Trends of GRO and Benzene concentrations). The plumes of GROs and benzene in groundwater still appear to be centered in the general vicinity of the former USTs on site (See Figures

2 and 3 for GRO and benzene concentration maps). A significantly high concentration of MTBE (1,400 ppb) was identified in well EW-13 (See Figure 4 for oxygenates concentration map),

#### FIELD CLEANUP

Well purge water was placed in properly labeled 55 gallon drums left on-site for transport to a legal point of disposal.

#### CONCLUSIONS

The lateral extent of the dissolved GRO and benzene plumes has been defined and is centered around the former UST location and the west central portion of the Towata flower shop two-story building structure. Some low levels of oxygenates were identified in down gradient wells and appear to represent the leading edge of the dissolved gasoline plume.

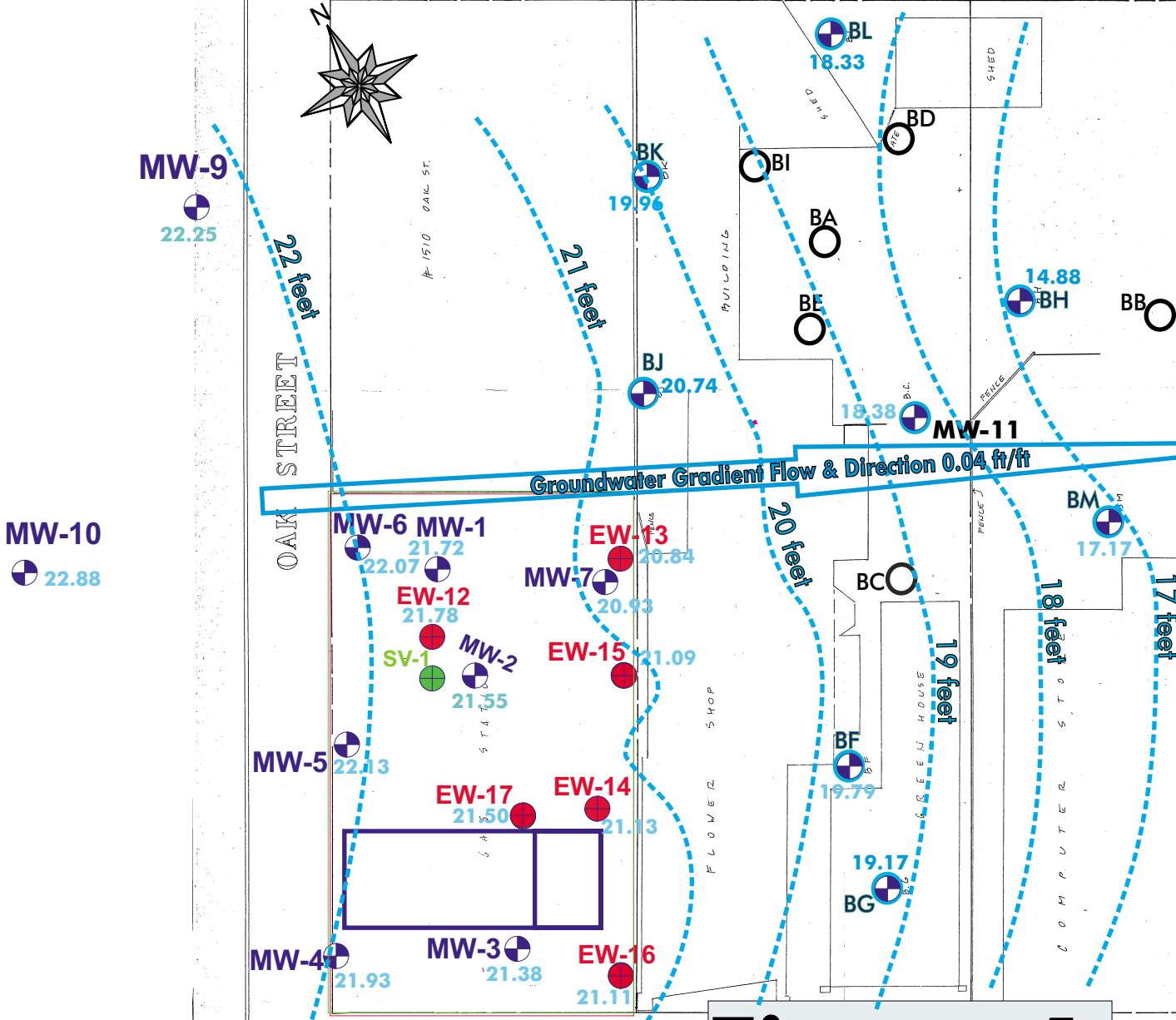
#### RECOMMENDATIONS

Perform an additional round of groundwater sampling.

#### LIMITATIONS

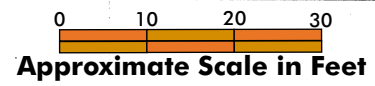
This report has been prepared in accordance with generally accepted environmental, geological and engineering practices. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analyses, conclusions and recommendations contained in this report are based upon site conditions as they existed at the time of the investigation and they are subject to change.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this report. Franklin J. Goldman, recognizes that the limited scope of services performed in execution of this investigation may not be appropriate to satisfy the needs, or requirements of other state agencies, or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein, is done so at the sole risk of the said user.



**Lines of equal elevation of groundwater measured on March 14, 2006**

**Figure 1**

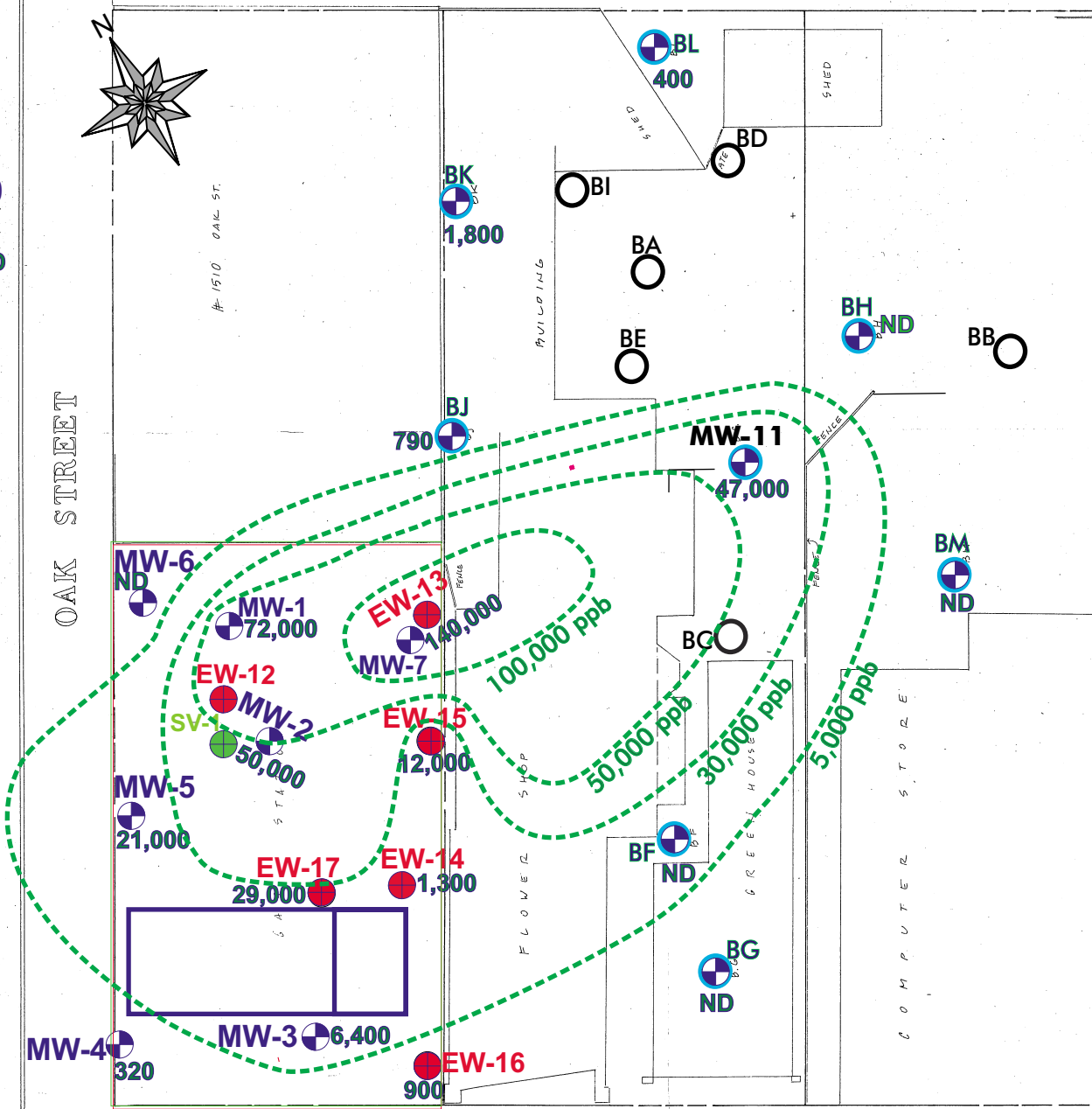
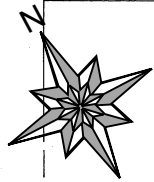


**CHUN - 2301 Santa Clara Avenue, Alameda**

MW-8  
21.09

MW-9  
ND

MW-10  
ND



**Concentration gradient contours in ppb of GRO in groundwater from March 13 & 14, 2006**

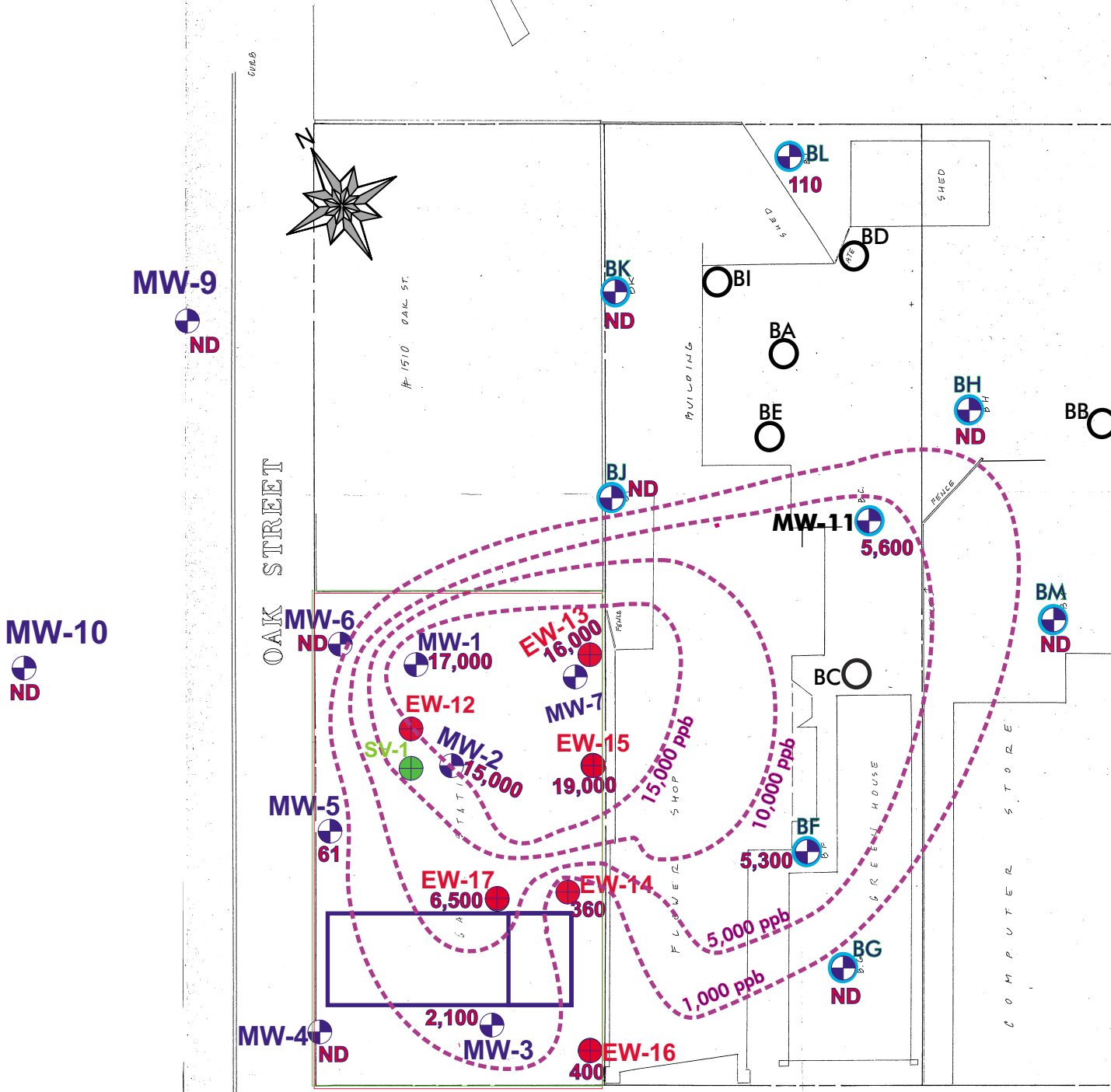
**Figure 2**

0 10 20 30  
Approximate Scale in Feet

SANTA CLARA AVE

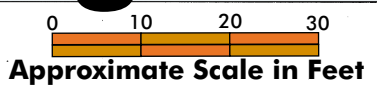
MW-8





**Concentration gradient contours in ppb of benzene in groundwater from March 13 & 14, 2006**

**Figure 3**

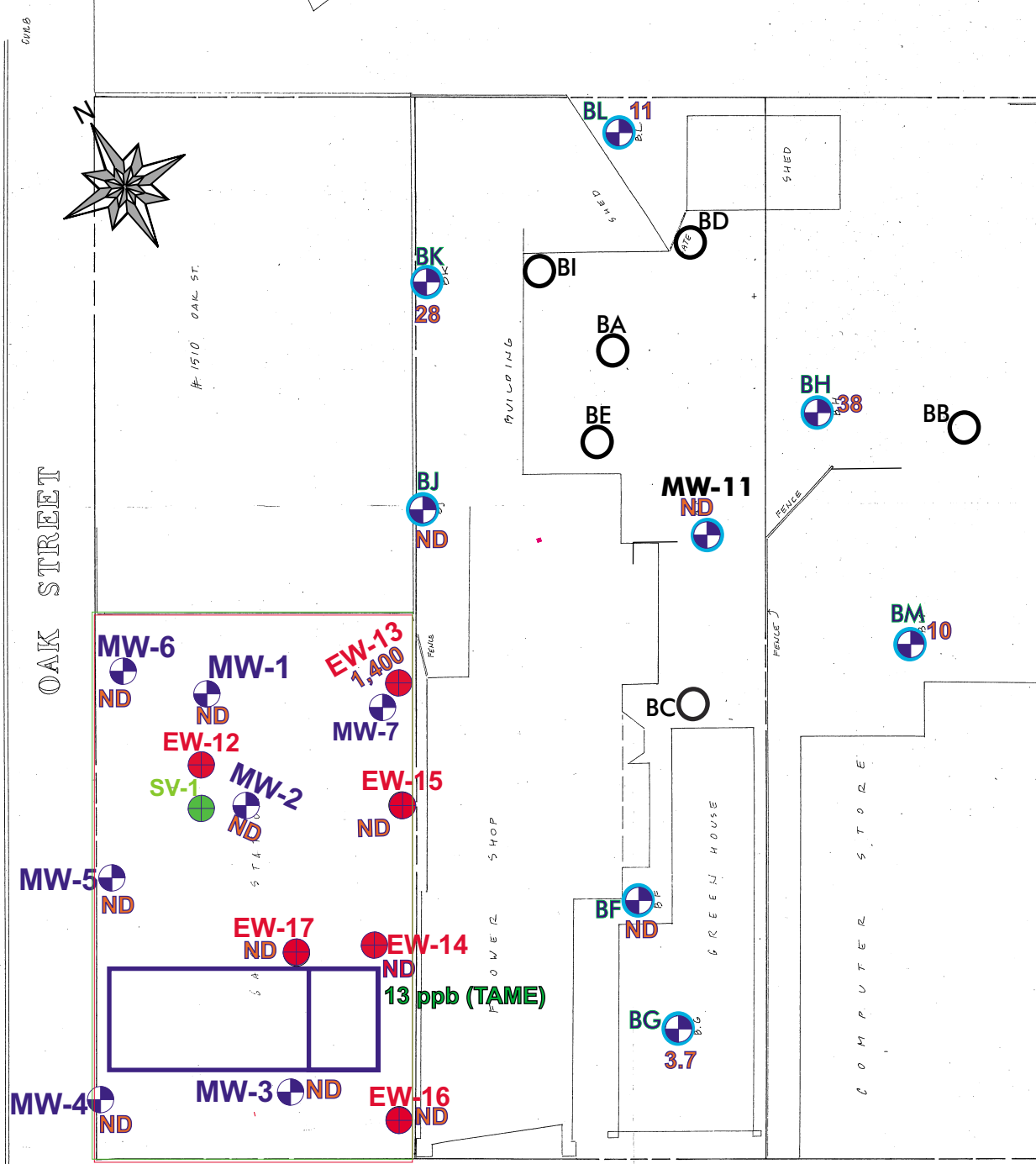


SANTA CLARA AVE

MW-8  
ND

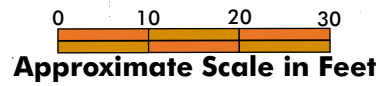
MW-9  
ND

MW-10  
ND



**Concentrations of MTBE in ppb in groundwater from March 13 & 14, 2006**  
**EDC, TBA & TAME were also identified**

**Figure 4**



SANTA CLARA AVE

MW-8  
ND

**TABLE 1**  
**Depth to Groundwater Measurements**  
**March 14, 2006**  
**Chun/Towata Properties - 2301 Santa Clara Avenue, Alameda**

Well No	Depth to Groundwater from TOC (feet bgs)	TOC Elevation (feet) MSN	Water Table Elevation (feet)
MW-1	6.77	28.49	21.72
MW-2	6.92	28.47	21.55
MW-3	7.40	28.78	21.38
MW-4	6.60	28.53	21.93
MW-5	6.20	28.33	22.13
MW-6	6.29	28.36	22.07
MW-7	7.51	28.44	20.93
MW-8	7.08	28.17	21.09
MW-9	5.20	27.45	22.25
MW-10	4.44	27.32	22.88
MW-11	6.79	25.17	18.38
EW-12	6.47	28.25	21.78
EW-13	7.80	28.64	20.84
EW-14	8.08	29.21	21.13
EW-15	7.62	28.71	21.09
EW-16	7.91	29.02	21.11
EW-17	7.45	28.95	21.50
BL	7.04	25.37	18.33
BK	5.06	25.02	19.96



<b>BJ</b>	<b>4.30</b>	<b>25.03</b>	<b>20.74</b>
<b>BH</b>	<b>10.30</b>	<b>25.18</b>	<b>14.88</b>
<b>BM</b>	<b>8.00</b>	<b>25.17</b>	<b>17.17</b>
<b>BF</b>	<b>5.87</b>	<b>25.66</b>	<b>19.79</b>
<b>BG</b>	<b>6.68</b>	<b>25.85</b>	<b>19.17</b>

**TABLE 2 - Chun**  
**Representative Analytical for Gasoline in Groundwater Trends (ppb)**

Well Identification		GRO	Benzene
MW-1	(03-13-06)	72,000	17,000
	(11-26-05)	6,400	2,600
	(08-20-05)	35,000	14,000
	(08-08-04)	29,000	9,700
	(04-24-04)	33,000	8,000
	(12-25-03)	12,000	3,400
	(09-20-03)	19,000	4,900
	(07-04-02)	43,000	7,200
	(09-17-00)	65,000	15,000
MW-2	(03-13-06)	50,000	15,000
	(11-26-05)	38,000	11,000
	(08-20-05)	31,000	10,000
	(08-08-04)	21,000	6,800
	(04-24-04)	44,000	8,400
	(12-25-03)	46,000	6,100
	(09-21-03)	27,000	2,400
	(07-04-02)	41,000	5,600
	(09-17-00)	140,000	21,000
MW-3	(03-13-06)	6,400	2,100
	(11-26-05)	6,100	1,200
	(08-20-05)	5,500	3,000
	(08-08-04)	2,500	400
	(04-24-04)	3,100	1,000
	(12-25-03)	3,300	290
	(09-21-03)	2,700	320
	(07-04-02)	10,000	2,300
	(09-17-00)	9,300	3,000

MW-4	(03-13-06)	320	<0.50
	(11-26-05)	<100	<0.50
	(08-20-05)	1,100	1.5
	(08-08-04)	ND	ND
	(04-24-04)	3,000	0.97
	(12-25-03)	ND	ND
	<i>(09-20-03)</i>	<i>ND</i>	<i>ND</i>
	(07-04-02)	ND	ND
	<i>(09-17-00)</i>	<i>ND</i>	<i>ND</i>
MW-5	(03-13-06)	21,000	61
	(11-26-05)	38,000	110
	(08-20-05)	19,000	130
	(08-08-04)	13,000	82
	(04-24-04)	13,000	97
	(12-25-03)	2,300	140
	<i>(09-21-03)</i>	<i>8,700</i>	<i>ND</i>
	(07-04-02)	16,000	89
	<i>(09-17-00)</i>	<i>44,000</i>	<i>490</i>
MW-6	(03-13-06)	<100	<0.50
	(11-26-05)	480	1.4
	(08-20-05)	810	<0.5
	(08-08-04)	320	2.7
	(04-24-04)	110	3.6
	(12-25-03)	1,200	18
	<i>(09-20-03)</i>	<i>500</i>	<i>15</i>
	(07-04-02)	3,900	29
	<i>(09-17-00)</i>	<i>10,000</i>	<i>110</i>
MW-7	(03-13-06)	NA	NA
	(08-20-05)	NA	NA
	(08-08-04)	92,000	9,300
	(04-24-04)	100,000	10,000
	(12-25-03)	110,000	12,000

	<i>(09-21-03)</i>	<i>110,000</i>	<i>4,200</i>
	(07-04-02)	140,000	15,000
	<i>(09-17-00)</i>	<i>220,000</i>	<i>32,000</i>
MW-8	(03-13-06)	<100	<0.5
	(11-27-05)	<100	<0.5
	(08-22-05)	<100	<0.5
	(08-08-04)	NA	NA
	(04-24-04)	ND	ND
	(12-25-03)	ND	ND
	<i>(09-20-03)</i>	<i>ND</i>	<i>ND</i>
	(07-03-02)	ND	1.1
	<i>(09-17-00)</i>	<i>ND</i>	<i>1.4</i>
MW-9	(03-13-06)	<100	<0.5
	(11-27-05)	<100	<0.5
	(08-22-05)	<100	<0.5
	(04-24-04)	ND	ND
	(12-25-03)	ND	ND
	<i>(09-20-03)</i>	<i>ND</i>	<i>ND</i>
	(07-03-02)	ND	ND
	<i>(09-17-00)</i>	<i>ND</i>	<i>ND</i>
MW-10	(03-13-06)	<100	<0.5
	(11-27-05)	<100	<0.5
	(08-22-04)	<100	<0.5
	(04-24-04)	ND	ND
	(12-25-03)	ND	ND
	<i>(09-20-03)</i>	<i>ND</i>	<i>ND</i>
	(07-03-02)	ND	ND
	<i>(09-17-00)</i>	<i>ND</i>	<i>ND</i>
MW-11	(03-13-06)	47,000	5,600
	(11-26-05)	56,000	4,000
	(08-20-05)	31,000	5,100
	(08-08-04)	29,000	3,100

	(04-24-04)	38,000	5,000
	(12-25-03)	14,000	1,400
	(09-22-03)	46,000	1,700
	(10-24-02)	59,000	5,100
SV-1	(03-13-06)	NA	NA
	(11-26-05)	NA	NA
	(08-08-04)	NA	NA
	(04-24-04)	9,600	740
	(12-25-03)	83,000	2,200
	(09-21-03)	89,000	2,300
	(07-04-02)	210,000	7,900
	(09-17-00)	560,000	10,000
EW-12	(03-13-06)	NA	NA
	(11-27-05)	NA	NA
	(08-08-04)	NA	NA
	(04-24-04)	12,000	920
	(12-25-03)	9,900	790
	(09-21-03)	19,000	590
	(10-31-02)	5,840	75.7
EW-13	(03-13-06)	140,000	16,000
	(11-27-05)	150,000	16,000
	(08-20-05)	130,000	27,000
	(08-08-04)	NA	NA
	(04-24-04)	100,000	19,000
	(12-25-03)	110,000	17,000
	(09-21-03)	71,000	10,000
	(10-31-02)	109,200	9,120
EW-14	(03-13-06)	1,300	360
	(11-27-05)	53,000	10,000
	(08-22-05)	26,000	7,100
	(08-08-04)	14,000	6,300
	(04-24-04)	9,400	4,100

	(12-25-03)	26,000	5,300
	(09-22-03)	68,000	4,100
EW-15	(03-13-06)	12,000	1,900
	(11-27-05)	71,000	11,000
	(08-22-05)	670,000	11,000
	(08-08-04)	36,000	3,300
	(01-21-04)	72,000	8,400
EW-16	(03-13-06)	900	400
	(11-26-05)	1,600	160
	(08-20-05)	1,600	410
	(08-08-04)	2,500	590
	(01-21-04)	1,500	290
EW-17	(03-13-06)	29,000	6,500
	(11-27-05)	35,000	8,000
	(08-22-05)	42,000	13,000
	(08-08-04)	30,000	6,800
	(01-21-04)	18,000	2,600
BM	(03-13-06)	<100	<0.5
	(11-26-05)	<100	<0.5
	(08-20-05)	<100	<0.5
BH	(03-13-06)	<100	<0.50
	(11-26-05)	<100	0.76
	(08-20-05)	<100	<0.5
BF	(03-13-06)	<10,000	5,300
	(11-26-05)	13,000	8,300
	(08-20-05)	3,800	89
BL	(03-13-06)	400	110
	(11-27-05)	<100	<0.5
	(08-22-05)	<100	17
BG	(03-13-06)	<100	<0.5
	(11-27-05)	130	2.1
	(08-22-05)	100	59

BK	(03-13-06)	1,800	<0.50
	(11-27-05)	7,200	93
	(08-22-05)	3,600	22
BJ	(03-13-06)	790	<0.5
	(11-27-05)	6,800	90
	(08-22-05)	1,500	14

**Appendix A**  
**Well Purging Logs**





**Appendix B**  
**Lab Data Sheets**



9765 Eton Avenue  
Chatsworth  
California 91311  
Tel: (818) 998-5547  
Fax: (818) 998-7258

---

April 03, 2006

Frank Goldman

Chun

265 Heron Drive

Pittsburg, CA 94565

**Re : Chun**

**A57214 / 6C17013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/17/06 10:14 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analyticals.

Sincerely,

A handwritten signature in black ink, appearing to be "V. Vasile", written in a cursive style.

Viorel Vasile

Operations Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
<b><u>8260B TPHGBTEXOXYEDBEDC</u></b>					
EW-13	6C17013-01	Water	10	03/13/06 07:50	03/17/06 10:14
EW-15	6C17013-02	Water	10	03/13/06 09:15	03/17/06 10:14
EW-14	6C17013-03	Water	10	03/13/06 10:40	03/17/06 10:14
EW-17	6C17013-04	Water	10	03/13/06 11:55	03/17/06 10:14
EW-16	6C17013-05	Water	10	03/13/06 13:20	03/17/06 10:14
MW-3	6C17013-06	Water	10	03/13/06 14:05	03/17/06 10:14
BJ	6C17013-07	Water	10	03/13/06 15:00	03/17/06 10:14
BK	6C17013-08	Water	10	03/13/06 15:35	03/17/06 10:14
MW-2	6C17013-09	Water	10	03/13/06 16:15	03/17/06 10:14
MW-1	6C17013-10	Water	10	03/13/06 17:05	03/17/06 10:14
MW-4	6C17013-11	Water	10	03/13/06 17:50	03/17/06 10:14
MW-5	6C17013-12	Water	10	03/14/06 07:25	03/17/06 10:14
MW-6	6C17013-13	Water	10	03/14/06 08:10	03/17/06 10:14
BG	6C17013-14	Water	10	03/14/06 09:00	03/17/06 10:14
BL	6C17013-15	Water	10	03/14/06 09:55	03/17/06 10:14
BF	6C17013-16	Water	10	03/14/06 10:35	03/17/06 10:14
BH	6C17013-17	Water	10	03/14/06 11:55	03/17/06 10:14
BM	6C17013-18	Water	10	03/14/06 12:50	03/17/06 10:14
MW-11	6C17013-19	Water	10	03/14/06 13:40	03/17/06 10:14
MW-8	6C17013-20	Water	10	03/14/06 14:35	03/17/06 10:14
MW-9	6C17013-21	Water	10	03/14/06 15:40	03/17/06 10:14
MW-10	6C17013-22	Water	10	03/14/06 16:55	03/17/06 10:14

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun  
**Method:** TPHG/BTEX/OXY/EDBEDC by GC/MS

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06  
**Units:** ug/L

<b>Date Sampled:</b>	03/13/06	03/13/06	03/13/06	03/13/06	
<b>Date Prepared:</b>	03/23/06	03/23/06	03/23/06	03/24/06	
<b>Date Analyzed:</b>	03/23/06	03/23/06	03/23/06	03/24/06	
<b>AA ID No:</b>	6C17013-01	6C17013-02	6C17013-03	6C17013-04	
<b>Client ID No:</b>	EW-13	EW-15	EW-14	EW-17	
<b>Matrix:</b>	Water	Water	Water	Water	
<b>Dilution Factor:</b>	500	20	5	50	MRL

**8260B TPHGBTEXOXYEDBEDC (EPA 8260B)**

tert-Amyl Methyl Ether (TAME)	<1000	<40	<b>13</b>	<100	2.0
Benzene	<b>16000</b>	<b>1900</b>	<b>360</b>	<b>6500</b>	0.50
tert-Butyl alcohol (TBA)	<5000	<200	<50	<500	10
1,2-Dibromoethane (EDB)	<250	<10	<2.5	<25	0.50
1,2-Dichloroethane (EDC)	<250	<10	<2.5	<25	0.50
Diisopropyl ether (DIPE)	<1000	<40	<10	<100	2.0
Ethylbenzene	<b>3300</b>	<b>440</b>	<b>35</b>	<b>1100</b>	0.50
Ethyl-tert-Butyl Ether (ETBE)	<1000	<40	<10	<100	2.0
Gasoline Range Organics (GRO)	<b>140000</b>	<b>12000</b>	<b>1300</b>	<b>29000</b>	100
Methyl-tert-Butyl Ether (MTBE)	<b>1400</b>	<40	<10	<100	2.0
Toluene	<b>46000</b>	<b>1700</b>	<b>110</b>	<b>6500</b>	0.50
o-Xylene	<b>5300</b>	<b>670</b>	<b>57</b>	<b>1900</b>	0.50
m,p-Xylenes	<b>14000</b>	<b>1300</b>	<b>62</b>	<b>3600</b>	1.0

**Surrogates**

					<b>%REC Limits</b>
Dibromofluoromethane	100%	113%	109%	101%	80-120
Toluene-d8	110%	109%	107%	114%	80-120

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun  
**Method:** TPHG/BTEX/OXY/EDBEDC by GC/MS

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06  
**Units:** ug/L

<b>Date Sampled:</b>	03/13/06	03/13/06	03/13/06	03/13/06	
<b>Date Prepared:</b>	03/24/06	03/24/06	03/24/06	03/24/06	
<b>Date Analyzed:</b>	03/24/06	03/24/06	03/24/06	03/24/06	
<b>AA ID No:</b>	6C17013-05	6C17013-06	6C17013-07	6C17013-08	
<b>Client ID No:</b>	EW-16	MW-3	BJ	BK	
<b>Matrix:</b>	Water	Water	Water	Water	
<b>Dilution Factor:</b>	1	10	1	10	MRL

**8260B TPHGBTEXOXYEDBEDC (EPA 8260B)**

tert-Amyl Methyl Ether (TAME)	<2.0	<20	<2.0	<20	2.0
Benzene	<b>400</b>	<b>2100</b>	<0.50	<5.0	0.50
tert-Butyl alcohol (TBA)	<10	<100	<10	<100	10
1,2-Dibromoethane (EDB)	<0.50	<5.0	<0.50	<5.0	0.50
1,2-Dichloroethane (EDC)	<0.50	<5.0	<0.50	<5.0	0.50
Diisopropyl ether (DIPE)	<2.0	<20	<2.0	<20	2.0
Ethylbenzene	<0.50	<b>150</b>	<b>6.5</b>	<b>41</b>	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<20	<2.0	<20	2.0
Gasoline Range Organics (GRO)	<b>900</b>	<b>6400</b>	<b>790</b>	<b>1800</b>	100
Methyl-tert-Butyl Ether (MTBE)	<2.0	<20	<2.0	<b>28</b>	2.0
Toluene	<b>0.65</b>	<b>19</b>	<b>6.6</b>	<b>14</b>	0.50
o-Xylene	<0.50	<b>40</b>	<b>13</b>	<b>56</b>	0.50
m,p-Xylenes	<1.0	<b>490</b>	<b>44</b>	<b>220</b>	1.0

**Surrogates**

					<b>%REC Limits</b>
Dibromofluoromethane	98.6%	102%	98.2%	96.6%	80-120
Toluene-d8	97.2%	91.0%	101%	108%	80-120

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun  
**Method:** TPHG/BTEX/OXY/EDBEDC by GC/MS

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06  
**Units:** ug/L

<b>Date Sampled:</b>	03/13/06	03/13/06	03/13/06	03/14/06	
<b>Date Prepared:</b>	03/24/06	03/24/06	03/24/06	03/24/06	
<b>Date Analyzed:</b>	03/24/06	03/24/06	03/24/06	03/24/06	
<b>AA ID No:</b>	6C17013-09	6C17013-10	6C17013-11	6C17013-12	
<b>Client ID No:</b>	MW-2	MW-1	MW-4	MW-5	
<b>Matrix:</b>	Water	Water	Water	Water	
<b>Dilution Factor:</b>	100	200	1	50	MRL

**8260B TPHGBTEXOXYEDBEDC (EPA 8260B)**

tert-Amyl Methyl Ether (TAME)	<200	<400	<2.0	<100	2.0
Benzene	<b>15000</b>	<b>17000</b>	<0.50	<b>61</b>	0.50
tert-Butyl alcohol (TBA)	<1000	<2000	<10	<500	10
1,2-Dibromoethane (EDB)	<50	<100	<0.50	<25	0.50
1,2-Dichloroethane (EDC)	<50	<100	<0.50	<25	0.50
Diisopropyl ether (DIPE)	<200	<400	<2.0	<100	2.0
Ethylbenzene	<b>970</b>	<b>3000</b>	<b>1.4</b>	<b>700</b>	0.50
Ethyl-tert-Butyl Ether (ETBE)	<200	<400	<2.0	<100	2.0
Gasoline Range Organics (GRO)	<b>50000</b>	<b>72000</b>	<b>320</b>	<b>21000</b>	100
Methyl-tert-Butyl Ether (MTBE)	<200	<400	<2.0	<100	2.0
Toluene	<b>5200</b>	<b>16000</b>	<0.50	<b>350</b>	0.50
o-Xylene	<b>1000</b>	<b>3400</b>	<b>0.73</b>	<b>630</b>	0.50
m,p-Xylenes	<b>3400</b>	<b>7000</b>	<b>16</b>	<b>2700</b>	1.0

<b>Surrogates</b>					<b>%REC Limits</b>
Dibromofluoromethane	112%	94.0%	110%	110%	80-120
Toluene-d8	78.0%	98.0%	100%	86.0%	80-120

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun  
**Method:** TPHG/BTEX/OXY/EDBEDC by GC/MS

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06  
**Units:** ug/L

Date Sampled:	03/14/06	03/14/06	03/14/06	03/14/06	
Date Prepared:	03/24/06	03/24/06	03/24/06	03/24/06	
Date Analyzed:	03/24/06	03/24/06	03/24/06	03/24/06	
AA ID No:	6C17013-13	6C17013-14	6C17013-15	6C17013-16	
Client ID No:	MW-6	BG	BL	BF	
Matrix:	Water	Water	Water	Water	
Dilution Factor:	1	1	1	100	MRL

**8260B TPHGBTEXOXYEDBEDC (EPA 8260B)**

tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<2.0	<200	2.0
Benzene	<0.50	<0.50	<b>110</b>	<b>5300</b>	0.50
tert-Butyl alcohol (TBA)	<10	<10	<10	<1000	10
1,2-Dibromoethane (EDB)	<0.50	<0.50	<0.50	<50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<0.50	<50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<200	2.0
Ethylbenzene	<0.50	<0.50	<0.50	<50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<2.0	<200	2.0
Gasoline Range Organics (GRO)	<100	<100	<b>400</b>	<10000	100
Methyl-tert-Butyl Ether (MTBE)	<2.0	<b>3.7</b>	<b>11</b>	<200	2.0
Toluene	<0.50	<0.50	<0.50	<50	0.50
o-Xylene	<0.50	<0.50	<0.50	<50	0.50
m,p-Xylenes	<1.0	<1.0	<1.0	<100	1.0

<b>Surrogates</b>					<b>%REC Limits</b>
Dibromofluoromethane	102%	104%	100%	98.0%	80-120
Toluene-d8	106%	94.0%	108%	98.0%	80-120

**Viorel Vasile**  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun  
**Method:** TPHG/BTEX/OXY/EDBEDC by GC/MS

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06  
**Units:** ug/L

<b>Date Sampled:</b>	03/14/06	03/14/06	03/14/06	03/14/06
<b>Date Prepared:</b>	03/24/06	03/24/06	03/24/06	03/24/06
<b>Date Analyzed:</b>	03/24/06	03/24/06	03/24/06	03/24/06
<b>AA ID No:</b>	6C17013-17	6C17013-18	6C17013-19	6C17013-20
<b>Client ID No:</b>	BH	BM	MW-11	MW-8
<b>Matrix:</b>	Water	Water	Water	Water
<b>Dilution Factor:</b>	1	1	200	1

MRL

**8260B TPHGBTEXOXYEDBEDC (EPA 8260B)**

tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	<400	<2.0	2.0
Benzene	<0.50	<0.50	<b>5600</b>	<0.50	0.50
tert-Butyl alcohol (TBA)	<10	<10	<2000	<10	10
1,2-Dibromoethane (EDB)	<0.50	<0.50	<100	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	<100	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	<400	<2.0	2.0
Ethylbenzene	<0.50	<0.50	<b>1900</b>	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	<400	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	<b>47000</b>	<100	100
Methyl-tert-Butyl Ether (MTBE)	<b>38</b>	<b>10</b>	<400	<2.0	2.0
Toluene	<0.50	<0.50	<b>2400</b>	<0.50	0.50
o-Xylene	<0.50	<0.50	<b>2000</b>	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	<b>8100</b>	<1.0	1.0

**Surrogates**

					<b>%REC Limits</b>
Dibromofluoromethane	96.0%	100%	102%	100%	80-120
Toluene-d8	104%	98.0%	100%	112%	80-120

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun  
**Method:** TPHG/BTEX/OXY/EDBEDC by GC/MS

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06  
**Units:** ug/L

<b>Date Sampled:</b>	03/14/06	03/14/06	
<b>Date Prepared:</b>	03/24/06	03/24/06	
<b>Date Analyzed:</b>	03/24/06	03/24/06	
<b>AA ID No:</b>	6C17013-21	6C17013-22	
<b>Client ID No:</b>	MW-9	MW-10	
<b>Matrix:</b>	Water	Water	
<b>Dilution Factor:</b>	1	1	MRL

**8260B TPHGBTEXOXYEDBEDC (EPA 8260B)**

tert-Amyl Methyl Ether (TAME)	<2.0	<2.0	2.0
Benzene	<0.50	<0.50	0.50
tert-Butyl alcohol (TBA)	<10	<10	10
1,2-Dibromoethane (EDB)	<0.50	<0.50	0.50
1,2-Dichloroethane (EDC)	<0.50	<0.50	0.50
Diisopropyl ether (DIPE)	<2.0	<2.0	2.0
Ethylbenzene	<0.50	<0.50	0.50
Ethyl-tert-Butyl Ether (ETBE)	<2.0	<2.0	2.0
Gasoline Range Organics (GRO)	<100	<100	100
Methyl-tert-Butyl Ether (MTBE)	<2.0	<2.0	2.0
Toluene	<0.50	<0.50	0.50
o-Xylene	<0.50	<0.50	0.50
m,p-Xylenes	<1.0	<1.0	1.0

**Surrogates**

			<b>%REC Limits</b>
Dibromofluoromethane	106%	104%	80-120
Toluene-d8	102%	90.0%	80-120

**Viorel Vasile**  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: Chun  
 Project No: NA  
 Project Name: Chun

AA Project No: A57214  
 Date Received: 03/17/06  
 Date Reported: 04/03/06

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>TPHG/BTEX/OXY/EDBEDC by GC/MS - Quality Control</b>										
<i>Batch B6C2405 - EPA 5030B</i>										
<b>Blank (B6C2405-BLK1)</b>				Prepared & Analyzed: 03/24/06						
tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L							
Gasoline Range Organics (GRO)	<100	100	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: Dibromofluoromethane</i>	51.8		ug/L	50.0		104	80-120			
<i>Surrogate: Toluene-d8</i>	60.1		ug/L	50.0		120	80-120			
<b>LCS (B6C2405-BS1)</b>				Prepared & Analyzed: 03/24/06						
Benzene	18.1	0.50	ug/L	20.0		90.5	75-125			
1,2-Dichloroethane (EDC)	19.6	0.50	ug/L	20.0		98.0	75-125			
Ethylbenzene	22.3	0.50	ug/L	20.0		112	75-125			
Gasoline Range Organics (GRO)	535	100	ug/L	500		107	75-125			
Methyl-tert-Butyl Ether (MTBE)	19.5	2.0	ug/L	20.0		97.5	75-125			
Toluene	22.0	0.50	ug/L	20.0		110	75-125			
o-Xylene	22.8	0.50	ug/L	20.0		114	75-125			
<i>Surrogate: Dibromofluoromethane</i>	46.5		ug/L	50.0		93.0	80-120			
<i>Surrogate: Toluene-d8</i>	56.0		ug/L	50.0		112	80-120			
<b>Matrix Spike (B6C2405-MS1)</b>				Source: 6C17013-11 Prepared & Analyzed: 03/24/06						
Benzene	20.4	0.50	ug/L	20.0	<0.50	102	70-130			
Ethylbenzene	24.0	0.50	ug/L	20.0	1.4	113	70-130			
Methyl-tert-Butyl Ether (MTBE)	20.2	2.0	ug/L	20.0	<2.0	101	70-130			

**Viorel Vasile**  
 Operations Manager



## LABORATORY ANALYSIS RESULTS

Client: Chun  
 Project No: NA  
 Project Name: Chun

AA Project No: A57214  
 Date Received: 03/17/06  
 Date Reported: 04/03/06

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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**TPHG/BTEX/OXY/EDBEDC by GC/MS - Quality Control**

Batch B6C2405 - EPA 5030B

**Matrix Spike (B6C2405-MS1) Continued Source: 6C17013-11** Prepared & Analyzed: 03/24/06

Toluene	24.0	0.50	ug/L	20.0	<0.50	120	70-130			
Surrogate: Dibromofluoromethane	44.2		ug/L	50.0		88.4	80-120			
Surrogate: Toluene-d8	56.2		ug/L	50.0		112	80-120			

**Matrix Spike Dup (B6C2405-MSD1) Source: 6C17013-11** Prepared & Analyzed: 03/24/06

Benzene	19.1	0.50	ug/L	20.0	<0.50	95.5	70-130	6.58	30	
Ethylbenzene	22.1	0.50	ug/L	20.0	1.4	104	70-130	8.24	30	
Methyl-tert-Butyl Ether (MTBE)	19.5	2.0	ug/L	20.0	<2.0	97.5	70-130	3.53	30	
Toluene	21.6	0.50	ug/L	20.0	<0.50	108	70-130	10.5	30	
Surrogate: Dibromofluoromethane	45.0		ug/L	50.0		90.0	80-120			
Surrogate: Toluene-d8	48.9		ug/L	50.0		97.8	80-120			

Batch B6C2916 - EPA 5030B

**Blank (B6C2916-BLK1)**

Prepared & Analyzed: 03/23/06

tert-Amyl Methyl Ether (TAME)	<2.0	2.0	ug/L							
Benzene	<0.50	0.50	ug/L							
tert-Butyl alcohol (TBA)	<10	10	ug/L							
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L							
1,2-Dichloroethane (EDC)	<0.50	0.50	ug/L							
Diisopropyl ether (DIPE)	<2.0	2.0	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<2.0	2.0	ug/L							
Gasoline Range Organics (GRO)	<100	100	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	54.0		ug/L	50.0		108	80-120			
Surrogate: Toluene-d8	45.8		ug/L	50.0		91.6	80-120			

**LCS (B6C2916-BS1)**

Prepared & Analyzed: 03/23/06

Benzene	19.0	0.50	ug/L	20.0		95.0	75-125			
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**Viorel Vasile**  
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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**TPHG/BTEX/OXY/EDBEDC by GC/MS - Quality Control**

Batch B6C2916 - EPA 5030B

**LCS (B6C2916-BS1) Continued**

Prepared & Analyzed: 03/23/06

1,2-Dichloroethane (EDC)	19.9	0.50	ug/L	20.0	99.5	75-125				
Ethylbenzene	21.4	0.50	ug/L	20.0	107	75-125				
Gasoline Range Organics (GRO)	376	100	ug/L	500	75.2	75-125				
Methyl-tert-Butyl Ether (MTBE)	16.6	2.0	ug/L	20.0	83.0	75-125				
Toluene	19.7	0.50	ug/L	20.0	98.5	75-125				
o-Xylene	21.7	0.50	ug/L	20.0	108	75-125				
Surrogate: Dibromofluoromethane	49.2		ug/L	50.0	98.4	80-120				
Surrogate: Toluene-d8	53.9		ug/L	50.0	108	80-120				

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** Chun  
**Project No:** NA  
**Project Name:** Chun

**AA Project No:** A57214  
**Date Received:** 03/17/06  
**Date Reported:** 04/03/06

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### Special Notes

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**Viorel Vasile**  
Operations Manager

A57214 / GC17013

Franklin J. Goldman  
 PO BOX 59, Sonoma, CA 95476  
 Phone: (707) 235-9979  
 franklingoldman1@yahoo.com

# CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. \_\_\_\_\_

Laboratory Please Call Accounts Payable for P.O. No. \_\_\_\_\_  
 Date: 03/15/06 Sheet 1 of 3

Project Name: CHUN  
 Project Number: \_\_\_\_\_  
 Address: 2301 Santa Clara Alameda  
 Sampler's Name: Frank Goldman  
 Sampler's Signature: Franklin J. Goldman

Parameters		TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	GRO, BTEX, SOX, S2100	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE
EW-13	03/13/06 7:50 AM												X			X
EW-15	9:15															
EW-14	10:40															
EW-17	11:55 AM															
EW-16	1:20 PM															
MW-3	2:05															
BJ	3:00															
BK	3:35															
MW-2	4:15 PM															
MW-1	5:05 PM															

Laboratory Delivery Location  
 American Analytics, Inc.  
 9765 Eton Ave  
 Chatsworth, CA  
 Phone: (818) 998-5547

Phone Turnaround Time  
 Rush  
 24 Hour  
 48 Hour  
 5-Day  
 Repeat to: Frank

Sample Number	Location	Date	Time
EW-13		03/13/06	7:50 AM
EW-15			9:15
EW-14			10:40
EW-17			11:55 AM
EW-16			1:20 PM
MW-3			2:05
BJ			3:00
BK			3:35
MW-2			4:15 PM
MW-1			5:05 PM

Comments  
 GC17013-01  
 -02  
 -03  
 -04  
 -05  
 -06  
 -07  
 -08  
 -09  
 -10

Relinquished By: Franklin J. Goldman  
 Date: 03/15/06  
 Time: 11:05 AM

Received By: FedEx  
 Date: 03/15/06  
 Time: 11:05

Total Number of Containers this Sheet: \_\_\_\_\_  
 Method of Shipment: \_\_\_\_\_  
 Special Shipment/Handling or Storage Requirements: \_\_\_\_\_

Dispatched By: [Signature]  
 Date: 3/17/06  
 Time: 10:14

Received in Lab By: [Signature]  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Keep on Ice

approved as work order 03/17/06 1230 in Verito

AS7214 / GC17013

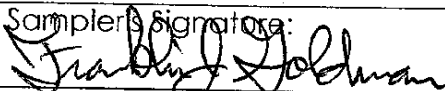
Franklin J. Goldman  
 PO BOX 59, Sonoma, CA 95476  
 Phone: (707) 235-9979  
 franklingoldman1@yahoo.com

# CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. \_\_\_\_\_

Laboratory Please Call Accounts Payable for P.O. No. \_\_\_\_\_

Date: \_\_\_\_\_ Sheet 2 of 3

Project Name CHUN  
 Project Number \_\_\_\_\_  
 Address 2301 Santa Clara  
Alameda  
 Sampler's Name:  
Frank Goldman  
 Sampler's Signature:  


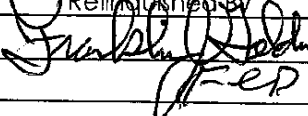

				Parameters														
Sample Number	Location	Date	Time	TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	G-PO, BTEX, 5 OXYS, Lead Scan	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE
MW-4		03/13/06	5:50 PM												X			X
MW-5		03/14/06	7:25 AM															
MW-6			8:10 PM															
BG			9:00 PM															
BL			9:55 PM															
BF			10:35 PM															
BH			11:55 PM															
BM			12:50 PM															
MW-11			1:40 PM															
MW-8			2:35 PM															

Laboratory Delivery Location  
 American Analytics, Inc.  
 9765 Eton Ave  
 Chatsworth, CA  
 Phone: (818) 998-5547

Phone Turnaround Time  
 Rush  24 Hour  48 Hour  5-Day

Repeat to: Frank

Comments  
 6C17013-11  
 -12  
 -13  
 -14  
 -15  
 -16  
 -17  
 -18  
 -19  
 -20


Relinquished By 	Date 03/15/06	Time 11:05 AM	Received By Fed X K. O. A.	Date 3/15/06	Time 11:05
Dispatched By	Date	Time	Received in Lab By 	Date 3/17/06	Time 10:14

Total Number of Containers this Sheet: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Special Shipment/Handling or Storage Requirements: \_\_\_\_\_

Keep on Ice

Approved as work order 03/17/06 1330 v. Von G. 

06 MAR 17 10:14 AM '06



