



Mr. Ted Walbey Fiesta Beverage 7150 Island Queen Dr. Sparks, NV 89436

Subject:

Spring 2005 Semi-Annual Groundwater Monitoring Events
Former Fiesta Beverage Facility
966 89th Avenue
Oakland, California
ACEH Site

Dear Mr. Walbey:

This letter documents the Spring 2005 semi-annual groundwater monitoring event at the subject site (Figure 1). This is the seventh groundwater monitoring event and the third semi-annual event conducted by Blymyer Engineers, Inc. at the former Fiesta Beverage site in Oakland, California.

1.0 Background

In August 1990, one 500-gallon and one 1,000-gallon gasoline underground storage tanks (USTs) were removed from the subject site (Figure 2). Soil and groundwater were reported to be impacted from releases from one or both USTs. Overexcavation of the former UST basins occurred in January 1991. The excavations were reported to have reached approximately 15 feet by 8 feet by 14 feet deep and 12 feet by 7 feet by 14 feet deep, respectively, on January 14, 1991. Beginning in April 1991, aeration of the soil occurred onsite. In April 1993, 74.28 tons of soil were transported to the Remco recycling facility.

In June 1993, groundwater monitoring wells MW-1, MW-2, and MW-3 were installed. In general, the wells encountered black to grey to light brown clay to a depth of approximately 15 below grade surface (bgs). At 15 feet bgs, the three bores encountered a 0.5- to 2.0-foot-thick clayey sand. Below this unit a light brown to grey clay was present to a depth of 18 to 21 feet bgs. Underneath this unit, a 1- to 3-foot-thick sand was encountered in bores MW-1 and MW-2, while a clayey silt was encountered in bore MW-3. Below approximately 21 feet bgs, a green-grey or black clay was encountered to the full explored depth of 26.5 feet bgs in bore MW-1 and to 25 feet bgs in bores MW-2 and MW-3. Saturated soil was encountered below a depth of approximately 13 feet bgs (in clay overlaying the uppermost sand unit). The wells were installed with a screened interval between 10 and 25 feet bgs. Groundwater from the three wells was sampled six times between August 1993 and December 1998.



In November 1999, after obtaining appropriate permits, AllCal Property Services, Inc. (AllCal) installed four Geoprobe" soil bores downgradient from the former location of the two USTs. The bores were installed in the public right-of-way across 89th Avenue from the subject site, in an unpaved portion of the roadway. Soil bores SB-1 and SB-2 were logged to a depth of 16 feet bgs. Silty clay was encountered to a depth of approximately 13 to 14 feet bgs. Below that depth, soil consisted of clayey silt that alternated between moist and saturated for several vertical feet. Bore SB-1 also encountered a poorly graded sand at 16 feet bgs. Hydrocarbon odors were present in both bores at a depth of approximately 6 feet bgs and green discolored soil was present at 10 feet bgs in bore SB-1. Discolored soil and gasoline odors were noted in both bores throughout the clayey silt, while brownish colored clay was present in both bores just above the silt. The groundwater interface appears to have been encountered at an approximate depth of 16 feet bgs in the sand. A sheen was noted at that depth in SB-1. Groundwater samples were obtained from bores SB-1 and SB-2 after pushing the Geoprobe system to a total depth of 18 feet bgs. Soil bores SB-3 and SB-4 were directly pushed to a total depth of 18 feet bgs in order to obtain grab groundwater samples. Groundwater samples from bores SB-1 and SB-2 contained elevated concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline, and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Significantly lower concentrations of TPH as gasoline and total xylenes were encountered in the groundwater sample from soil bore SB-3, while all analytes were nondetectable in groundwater collected from soil bore SB-4. No soil samples were submitted for laboratory analysis from the four Geoprobe bores.

After the review of the January 2001 groundwater monitoring report, the Alameda County Environmental Health (ACEH) approved the application of a 7% solution of hydrogen peroxide to the wells in an attempt to remediate dissolved constituents. On March 7, 2001, the solution was applied by AllCal and on April 25, 2001, a groundwater monitoring event was conducted to determine if a reduction in dissolved constituents had occurred. Based on the analytical data, a reduction was seen in wells MW-1 and MW-2, with some reductions also seen in well MW-3. This sampling event and subsequent interpretation was complicated by the presumed mis-marking of samples from wells MW-1 and MW-3. No further work at the site is known to have occurred between April 2001 and the March 2003 groundwater monitoring event.

On January 16, 2003, a new case manager, Mr. Amir Gholami, was appointed by the ACEH. On September 17, 2003, a workplan for a Geoprobe investigation of the site was submitted to the ACEH. The intent was to attempt to determine the lateral and vertical extent of impacted soil and groundwater in order to better target the residual contamination in future remedial actions to be determined. Due to the lack of a response from the ACEH, on February 17, 2004, Blymyer Engineers issued a Letter of Intent to Proceed: Geoprobe Investigation.

The Fourth Quarter 2003 Groundwater Monitoring Event report, dated January 6, 2004, recommended that analysis for fuel oxygenates by EPA Method 8260B be eliminated from the



analytical program. It was reasoned that the data generated to date had been very consistent, and further quantification would not significantly add to the level of understanding at the site. Additionally, the concentration of methyl *tert*-butyl ether (MTBE) can be monitored using EPA Method 8021B for no additional cost, and the resultant concentration of MTBE can be used as a proxy for the approximate concentration of the remaining fuel oxygenates. Based on the lack of response from the ACEH, it has been presumed that this was found reasonable and acceptable.

On March 15, 2004, Blymyer Engineers issued a letter entitled *Recommendation for Reduction of Groundwater Monitoring* that provided additional rationale for decreasing the groundwater sampling interval from quarterly to semi-annually. It argued that generation of quarterly analytical data would not significantly improve the level of understanding of impacts to the subsurface at the site, and recommended a reduction of the sampling interval to semi-annual. Based on the lack of response from the ACEH, it has been presumed that this was found reasonable and acceptable.

On December 14, 2004, Blymyer Engineers issued to the ACEH the Report on a Geoprobe Subsurface Investigation which documented the installation of nine Geoprobe soil bores at the site. The work further refined the known lateral and vertical extent of soil impacted by the petroleum release at the site. Grab groundwater samples in the upgradient and the eastern cross-gradient directions defined all petroleum compounds in groundwater to concentrations below the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs). Grab groundwater samples in the downgradient and western cross-gradient directions were unable to define most petroleum compounds to concentrations below the RWQCB ESLs. The installation of additional permanent groundwater monitoring wells was recommended as appropriate at the site in order to allow for groundwater sampling from a "repeatedly accessed location". It was reasoned that data generated from these locations will assist in determining appropriate remedial actions, and in monitoring remedial progress.

On July 6, 2005, the new case manager for the ACEH, Mr. Barney Chan, issued the letter Fuel Leak Case RO0000314 commenting on the December 14, 2004 report. The ACEH determined that the collection of additional data is needed to progress the site towards closure. The letter requested a workplan to clear well MW-1 of several feet of sediment due to the potential for groundwater gradient biasing, requested further definition of the groundwater and soil plumes through the installation of additional wells and soil bores, requested a conduit study, and requested a Feasibility Study and Remedial Action Plan. A submittal deadline of August 8, 2005, was placed on the workplan for further plume delineation.



2.0 Redevelopment of Well MW-1 and Well Maintenance

On March 17, 2003, at the request of the ACEH, an attempt to redevelop well MW-1 was undertaken by Blaine Tech Services, Inc. (Blaine). The wells are approximately 25 feet in total depth; however, over 7 feet of sediment had apparently accumulated in well MW-1. During the previous groundwater monitoring event in April 2001, the total depth measured in well MW-1 was recorded at 17.85 feet, in contrast to wells MW-2 and MW-3 which were measured at approximately 25 feet. Prior to redevelopment, Blaine measured the total depth of well MW-1 at 17.63 feet. After redeveloping the well with a surge block, the total depth of well MW-1 was measured at 14.43 feet. Blaine also attempted to remove the accumulated sediment with a Middleburg sampling pump. The first pump became clogged and a second pump was then put into service, but a significant amount of sediment could not be removed. Field notes completed by the Blaine field technician afterward contain references to "large sand particles" and "coarse sand and gravel" in the water column. Additional notes indicate that these particles were too large to be removed by the sampling pump, but that samples of the material were obtained with a Teflon bailer. Well casing breaks or offsets were not noted by the technician (personal communication, March 17, 2003). However, because well MW-1 is located within the asphalt repair installed after soil overexcavation, it is likely that a shift in the backfill material may have decoupled the casing at the joint between the screen and blank portions of the casing. The log for well MW-1 notes only native soil. The well is thus assumed to have been installed immediately outside of the UST excavation.

Because it had been a period of time since the wells were installed or sampled, several well maintenance issues were also encountered at the time of groundwater sampling in March 2003. In particular the well expansion caps were found to be aged with poor sealing capabilities and broken bolts which can interfere with well security (locking). Because these conditions compromise the security of the wells, the caps and locks were replaced on wells MW-2 and MW-3. The well cap and lock for well MW-1 were replaced in September 2003.

3.0 Groundwater Sample Collection and Analytical Methods

Groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-3 on June 29, 2005. The groundwater samples were collected by Blaine Tech Services, Inc. (Blaine) in accordance with Blaine Standard Operating Procedures for groundwater gauging, purging, and sampling. A copy is included as Appendix A. A flow cell was utilized to obtain dissolved oxygen (DO) readings and purging and sampling was conducted using a low-flow positive air displacement pump in order to minimize entrainment of oxygen into the groundwater sample. Blaine utilized a YSI 556 Flow Cell to obtain Remediation by Natural Attenuation (RNA) values. Depth to groundwater was measured in all wells at the site. Temperature, pH, conductivity, and turbidity were measured initially, and then after removal of each purge volume. The flow rate varied between 300 and 900 ml per minute. Besides DO, Oxidation Reduction Potential (ORP) was additionally monitored after



each purge volume. Ferrous iron was monitored post-purge. The groundwater depth measurements and details of the monitoring well purging and sampling are presented on the *Well Monitoring Data Sheets* and *Well Gauging Data* sheet generated by Blaine and included as Appendix B. Depth-to-groundwater measurements are presented in Table I. All purge and decontamination water was temporarily stored in Department of Transportation-approved 55-gallon drums for future disposal by the owner.

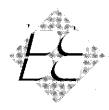
The groundwater samples were analyzed by McCampbell Analytical, Inc., a California-certified laboratory, on a 5-day turnaround time. Groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline by Modified EPA Method 8015; and benzene, toluene, ethylbenzene, and total xylenes (BTEX) and MTBE by EPA Method 8021B. Groundwater samples from all wells were analyzed for Carbon Dioxide by Standard Method 5310B; Nitrate and Sulfate by Standard Method E300.1; and Methane by Method RSK 174. Tables II to V summarize current and previous analytical results for groundwater samples. The laboratory analytical report for the current sampling event is included as Appendix C.

4.0 Groundwater Sample Analytical Results and Groundwater Flow Data

Concentrations of all of the chemical compounds related to gasoline were present in each well this quarter. Wells MW-1 and MW-2 contained TPH as gasoline and BTEX, all at concentrations higher than the previous period's results. While low flow purge methodology is generally accepted to yield higher ("worst-case") contaminant concentrations from wells, the hydrocarbon concentrations yielded from these two wells are well within the range of previous concentrations collected using higher purge volume methodologies. Additionally, all analyte concentrations in well MW-3 decreased this quarter, but again are well within the range of previous concentrations obtained from groundwater samples collected from this well. The continued fluctuation in results amongst all wells suggests a mobilization of residual contamination from soil to groundwater at the site.

The concentration of TPH as gasoline ranged from 130 (well MW-2) to 5,500 micrograms per liter (μ g/L) in well MW-1. Benzene ranged between a concentration of 27 μ g/L (well MW-3) and 750 μ g/L (well MW-1). Toluene was present up to a concentration of 27 μ g/L, ethylbenzene up to 94 μ g/L, and total xylenes to up 140 μ g/L (all in well MW-1).

As is typical, the concentration of benzene in groundwater exceeded the drinking water Maximum Contaminant Level (MCL) in all wells this monitoring and sampling event; however, Blymyer Engineers does not believe that groundwater at this location should be considered as drinking water. Consequently, Blymyer Engineers also includes the Environmental Screening Levels (ESL) promulgated by the RWQCB. Only the RWQCB provides a look-up value for TPH, and for a non-drinking water designation of groundwater.



At the request of the ACEH, four quarters of groundwater samples have previously been analyzed for the fuel oxygenates di-isopropyl ether (DIPE), ethyl *tert*-butyl ether (ETBE), methyl *tert*-butyl ether (MTBE), *tert*-amyl methyl ether (TAME), and *tert*-butyl alcohol (TBA), by EPA Method 8260B. Due to the consistency of the data, analysis by this EPA method was eliminated as an unnecessary expense. This is the third groundwater event since that recommendation. Using EPA Method 8021B, MTBE was detected in well MW-2, at a concentration of $6.7 \mu g/L$. Slightly elevated detection limits for MTBE were encountered for groundwater samples obtained from wells MW-1 and MW-3. Although not detected, it is likely that MTBE is present in wells MW-1 and MW-3 at similar concentrations, and that TAME is also present, at slightly lower concentrations, such as was documented in the June 2003 sampling event (Table III). Of the fuel oxygenates, only MTBE has an MCL, listed at 13 $\mu g/L$.

5.0 Intrinsic Bioremediation Groundwater Sample Analytical Results

Tables IV and V present the analytical results of the RNA indicator parameters. Microbial use of petroleum hydrocarbons as a food source is affected by the concentration of a number of chemical compounds dissolved in groundwater at a site. RNA monitoring parameters were established by research conducted by the Air Force Center for Environmental Excellence. The research results were used to develop a technical protocol for documenting RNA in groundwater at petroleum hydrocarbon release sites (Wiedemeier, Wilson, Kampbell, Miller and Hansen, 1995, Technical Protocol for Implementing the Intrinsic Remediation with Long Term Monitoring for Natural Attenuation of Fuel Contamination Dissolved in Groundwater, Volumes I and II, U.S. Air Force Center for Environmental Excellence, Brooks Air Force Base, Texas). The protocol focuses on documenting both aerobic and anaerobic degradation processes whereby indigenous subsurface bacteria use various dissolved electron acceptors to degrade dissolved petroleum hydrocarbons. A copy of the results of groundwater intrinsic bioremediation analyses is included in Appendix D.

In the order of preference, the following electron acceptors and metabolic by-products are used and generated, respectively, by the subsurface microbes to degrade petroleum hydrocarbons: oxygen to carbon dioxide, nitrate to nitrogen, manganese (Mn⁴⁺ to Mn²⁺), ferric iron (Fe³⁺) to ferrous iron (Fe²⁺), sulfate to hydrogen sulfide, and carbon dioxide to methane. With the exception of oxygen, use of all other electron acceptor pathways indicates anaerobic degradation. Investigation of each of these electron acceptor pathways, with the exception of the manganese pathway, was conducted at the site as part of the evaluation of RNA chemical parameters.

Microbial use of petroleum hydrocarbons as a food source is principally affected by the concentration of dissolved oxygen (DO) in the groundwater present at a site; it is the preferred electron acceptor for the biodegradation of hydrocarbons. Both pre-purge and post-purge values were recorded during this event. DO was present in pre-purge groundwater in concentrations ranging from 0.19 milligrams per liter (mg/L) in well MW-2 to 0.72 mg/L in the groundwater



sample from well MW-3. General trends in post-purge DO results appear to be discernable. Post-purge DO concentrations were lowest in the well with the highest hydrocarbon concentrations (MW-1), were highest in the most upgradient well (MW-3); and were low to intermediate in well MW-2; likely indicative of groundwater upgradient of this well that is already partially depleted in DO due to contamination. Post-purge DO concentrations in wells MW-2 and MW-3 increased slightly. This may be indicative of modestly higher concentrations of DO in the surrounding groundwater, relative to the DO concentration in groundwater surrounding well MW-1, which decreased after purging. In general it appears that oxygen is an RNA-limiting reaction.

ORP is another measure of the supply and use of oxygen at a site. The higher the reading in millivolts (mV), the more oxygenated the subsurface environment is, and the lower the readings, the more anaerobic or reducing the subsurface environment is. This is the first time this data has been collected at the site. The pre-purge ORP values generally mimic the trends observed in the DO data during this event (highest in well upgradient MW-3, lowest in well MW-1, intermediate in well MW-2). The post-purge ORP values in all wells decreased; generally indicating the low concentration of DO in groundwater beneath the area of investigation.

One of the by-products of microbial hydrocarbon degradation is the conversion of oxygen to carbon dioxide. Reviewing the generated data, well MW-1 contained the highest concentration of carbon dioxide, while upgradient well MW-3 contained the lowest, and downgradient well MW-2 contained an intermediate concentration. Thus, trends in carbon dioxide between wells are very consistent with DO concentrations and ORP values and reflect higher microbial activity in well MW-1.

Should oxygen be in insufficient supply in groundwater, the next preferred electron acceptor is nitrate, which creates denitrifying conditions. In denitrifying conditions, nitrate concentrations decrease in the contaminant plume over background nitrate concentrations. This is the general trend at the site. Well MW-1 contains the lowest (non-detectable) concentration of nitrate at the site. If the trends seen for DO, ORP, and carbon dioxide were to hold for nitrate, the concentration would be expected to be slightly higher in well MW-3 in comparison to well MW-2; however, there was a moderate reversal of these trends for nitrate.

Following the continuing trend of electron acceptors at the site, ferrous iron concentrations were evaluated at the site. Ferrous iron concentrations are expected to rise as subsurface microbes convert ferric iron to ferrous iron. Ferric iron concentrations were not quantified, however ferrous iron concentration was significantly elevated in the most impacted well MW-1 (4.5 mg/L), while only a moderate difference was observed between wells MW-2 and MW-3. The relatively low ferrous iron concentration in wells MW-2 and MW-3 may suggest contaminant concentrations in these wells during this time period may not require the microbes to resort to significant conversion of ferric to ferrous iron.



Continuing the trend of electron acceptors at the site, sulfate concentrations were also evaluated as part of the evaluation of RNA chemical parameters. If utilized by the microbes, sulfate concentrations, like nitrate concentrations, decrease in the contaminant plume over background sulfate concentrations. This is the trend seen at the site. The highest concentrations of sulfate are again found in groundwater collected from wells MW-2 and MW-3, with a significantly lower concentration found in groundwater from well MW-1. Conversion of the sulfate to hydrogen sulfide can influence the pH of the groundwater (lower pH values with higher hydrogen sulfide concentrations). This was not clearly observed at the site.

Further along the trend of electron acceptors, the conversion of carbon dioxide to methane was investigated at the site. The presence of methane in groundwater can be attributed to fermentation of natural organic matter as well as petroleum hydrocarbons. However, if utilized by the microbes, methane would increase relative to carbon dioxide. This is the trend observed at the site. Well MW-1 contained the highest concentration of methane, and this is presumed to represent degradation of the petroleum hydrocarbons, while wells MW-2 and MW-3 contained significantly lower concentrations of methane. Well MW-2 has through time contained the lowest contaminant concentrations, and this may be reflected in the concentration of methane in groundwater obtained from the well. It contained the lowest concentration of the three wells. A further analysis of groundwater from well MW-2, shows that it contained the highest sulfate concentration, the lowest ferrous iron concentration, the highest nitrate concentration, and moderate carbon dioxide concentrations. All of these substantiate that groundwater around the well is the least impacted of the three wells.

6.0 Groundwater Flow Data

Previously surveyed top-of-casing (TOC) elevations were used to construct a groundwater gradient map (Figure 2). Groundwater depths during this monitoring event ranged between 7.88 to 9.51 feet below the top of the casings. Depth to groundwater increased an average of 0.52 feet; however, this can be misleading. The depth to groundwater in well MW-1 decreased. The depth to groundwater in well MW-2 increased 1.51 feet, while it increased only 0.16 feet in well MW-3. Thus there was a significant rotation of the direction of groundwater flow back to a direction generally more consistent with historic trends. Groundwater appears to have flowed to the west during this event. Except for the First Quarter of 2003, previous sampling reports available for review indicate that the historic groundwater flow direction has been to the northwest to north-northwest. During the First Quarter of 2003 an unusual eastward directed gradient was documented, and during the previous semi-annual event groundwater appeared to be flowing towards the south. Surficial infiltration has been previously suspected; however, it does not appear to have been a factor during the present sampling event. The average groundwater gradient was calculated to be very steep at 0.126 feet/foot for the current monitoring event.



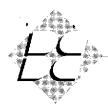
7.0 Conclusions and Recommendations

The following conclusions were generated from the available data discussed above:

- Concentrations of hydrocarbons were present in all wells this monitoring period. Concentrations increased in two of three wells. This is the first sampling event to utilize low-flow purge techniques in order to collect representative RNA parameters at the site. Typically low flow techniques are anticipated to yield higher or "worst-case" concentrations; however, all concentrations in all wells are within historic concentration bounds.
- Benzene, total xylenes, and TPH as gasoline are over generic RWQCB ESLs for groundwater (non-drinking water); however, only benzene is over the MCL goals.
- MTBE was detected in well MW-2, at a concentration of 6.7 μ g/L. Although not detected, it is likely that MTBE is present in the other wells. TAME has previously been detected in groundwater at the site, thus it is likely that it is present beneath the site. Of fuel oxygenates, only MTBE has an MCL, listed at 13 μ g/L.
- RNA chemical parameters were investigated to help determine the level of biological degradation of the petroleum hydrocarbons at the site. DO, ORP, carbon dioxide, nitrate, ferrous iron, sulfate, and methane were analyzed. Microbial use of petroleum hydrocarbons as a food source appears to be principally affected by the concentration of DO in the groundwater; it is the preferred electron acceptor for the biodegradation of hydrocarbons. Because each of the other electron acceptors, in the listed order, is preferred less by microbes to degrade hydrocarbons, and because each parameter was apparently fully utilized by microbes beneath the site, it appears that biological degradation of hydrocarbons is occurring in groundwater beneath the investigation area, and that the process is oxygen-limited.
- Groundwater flow appears to be towards the west and the average groundwater gradient was calculated at a very steep 0.126 feet/foot for this monitoring event.

The following recommendations were generated from the available data discussed above:

- The next semi-annual groundwater sampling event should occur in December 2005.
- Collection of RNA indicator data should be continued in order to obtain documentation of
 consistent results for a period of time. Typically two to three events may be required to
 establish consistent data trends. Thereafter, the collection of additional data will likely not
 significantly increase the understanding of biodegradation beneath the site. Collection of
 RNA indicator data could be resumed thereafter should a need be documented.



A copy of this letter report should be forwarded to:

Mr. Barney Chan Alameda County Health Care Services Agency Environmental Protection Division 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

8.0 Limitations

Services performed by Blymyer Engineers have been provided in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. The scope of work for the project was conducted within the limitations prescribed by the client. This report is not meant to represent a legal opinion. No other warranty, expressed or implied, is made. This report was prepared for the sole use of our client.

Please call Mark Detterman at (510) 521-3773 with any questions or comments.

Sincerely,

Blymyer Engineers, Inc.

Mark Detterman; C.E.G. 1788

Senior Geologist

Michael S. Lewis

Vice President, Technical Services

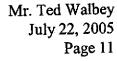




Table I: Summary of Groundwater Elevation Measurements

Table II: Summary of Groundwater Sample Hydrocarbon Analytical Results

Table III: Summary of Groundwater Sample Fuel Oxygenate Analytical Results

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Table V: Summary of Groundwater Intrinsic Bioremediation Analytical Results

Figure 1: Site Location Map

Figure 2: Site Plan and Groundwater Gradient, June 29, 2005

Appendix A: Standard Operating Procedures, Blaine Tech Services, Inc.
Appendix B: Well Monitoring Data Sheets and Well Gauging Data, Blaine Tech Services, Inc.,

Dated June 29, 2005

Appendix C: Analytical Laboratory Report, McCampbell Analytical, Inc., Dated July 7, 2005

Well Identification	Sampling Date	TOC Elevation (feet)	Depth to Water (feet)	Water Surface Elevation (feet)
MW-1	8/6/93	18.72	8.96	9.76
	1/12/96		8.55	10.17
	4/16/96		7.65	11.07
	7/15/96		8.76	9.96
	10/16/96		9.04	9.68
	12/15/98		8.38	10.34
	1/18/01		8.49	10.23
	4/25/01		8.24	10.48
	3/17/03*		8.08	10.64
	6/23/03		8.63	10.09
	9/18/03		8.90	9.82
	12/15/03		8.15	10.57
	6/15/04		8.67	10.05
	12/15/04		7.99	10.73
	6/29/05		7.88	10.84

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Well Identification	Sampling Date	TOC Elevation (feet)	Depth to Water (feet)	Water Surface Elevation (feet)
MW-2	8/6/93	18.44	8.68	9.76
	1/12/96		8.24	10.2
	4/16/96		7.41	11.03
	7/15/96		8.45	9.99
	10/16/96		8.73	9.71
	12/15/98		8.05	10.39
	1/18/01		8.24	10.20
	4/25/01		7.88	10.56
	3/17/03*		7.08	11.36
	6/23/03		8.90	9.54
	9/18/03		8.61	9.83
	12/15/03		7.97	10.47
	6/15/04		8.42	10.02
	12/15/04		8.00	10.44
	6/29/05		9.51	8.93

Well Identification	Sampling Date	TOC Elevation (feet)	Depth to Water (feet)	Water Surface Elevation (feet)
MW-3	8/6/93	19.01	9.07	9.94
	1/12/96		8.65	10.36
	4/16/96		7.82	11.19
	7/15/96		8.88	10.13
	10/16/96		9.16	9.85
	12/15/98		8.45	10.56
	1/18/01		8.57	10.44
	4/25/01		8.29	10.72
	3/17/03*		8.50	10.51
	6/23/03		9.05	9.96
	9/18/03		9.11	9.90
	12/15/03		8.03	10.98
	6/15/04		8.85	10.16
	12/15/04		8.84	10.17
	6/29/05		9.00	10.01

Notes: TOC

Top of casing Initial data set collected under direction of Blymyer Engineers, Inc.

NM Not measured

Elevations in feet above mean sea level

Sample ID	Date	Modified EPA Method 8015 (μg/L)	EPA Method 8020 or 8021B (μg/L)					
		TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	
MW-1	8/6/93	17,000	a disebility (Substitution) Or Salas (Albert Greek)	8.4	9.2	53	NA	
	1/12/96	12,000	egyddioleiddio Paeth Gara		370	1,100	NA	
	4/16/96	3,500	4.5.400	55	100	180	NA	
	7/15/96	11,000		e di solenia igili Signi	350	910	NA	
	10/16/96	21,000			650		NA	
	12/15/98	10,000	Marie de Carriero Parie de Rufferen		270	1,100	<350	
	1/18/01	11,000 *	200		320	1,100	<120	
	4/25/01	2,100 *, c		46	59	130	<5.0	
	3/17/03*	2,200 °	14779) 14779)	19	36	54	NA ^d	
	6/23/03	6,100 °		53	99	200	NA	
	9/18/03	3,800 *		13	24	34	NA	
	12/15/03	260 °		1.1	<0.5	1.5	NA	
	6/15/04	5,200 *	Signatury (2) Signatury (2)	13	38	39	<50	
	12/15/04	2,400 ª		8.2	13	14	<15	
	6/29/05	5,500 *	4.60	27	94	140	<100	

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Sample ID	Date	Modified EPA Method 8015 (μg/L)		EPA	Method 8020 α (μg/L)	or 8021B	
		TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-2	8/6/93	2,700	ina pagasan kanalas Nederla 18. septemb	1.7	2.0	8.1	NA
	1/12/96	2,700			94	220	NA
	4/16/96	190	en e	11	10	14	NA
	7/15/96	700		33	34	48	NA
	10/16/96	190		8.2	10	13	NA
	12/15/98	200		17	4.9	14	4.4 b
	1/18/01	300 a		26	7.3	21	7.3
	4/25/01	<50°		2.2	0.57	1.9	<5.0
	3/17/03*	78 °		3.3	1.5	3.5	NA ^d
	6/23/03	160 *		1.6	1.2	1.8	NA
	9/18/03	<50		<0.5	<0.5	<0.5	NA
	12/15/03	<50		<0.5	<0.5	<0.5	NA
	6/15/04	95 *		1.3	1.8	1.2	<30
	12/15/04	<50		0.97	0.57	0.91	7.8
	6/29/05	130		2.0	3.3	3.4	6.7

	venilori 2						
Sample ID	Date	Modified EPA Method 8015 (μg/L)		EPA	A Method 8020 α (μg/L)	or 8021B	
:		TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-3	8/6/93	5,200		2.9	3.6	17	NA
	1/12/96	4,500	の後の最初の を 方 日の第44分を		120	470	NA
	4/16/96	5,400			160	580	NA
	7/15/96	1,800	200 (200 (200 (200 (200 (200 (200 (200	2 AT ± 10 €	66	250	NA
	10/16/96	2,000		140	100	300	NA
	12/15/98	1,400		39	72	150	<22
	1/18/01	1,800 *	ert III.	41	86	120	<10
	4/25/01	8,300 * °			200	1,100	<20
	3/17/03*	2,100 *		78	10	280	NA ^d
	6/23/03	<50		0.60	0.69	1.4	NA_
	9/18/03	<50	<0.5	<0.5	<0.5	<0.5	NA
	12/15/03	2,400		120	140	260	NA
	6/15/04	<50		<0.5	<0.5	<0.5	6.2
:	12/15/04	1,600 *		83	83	230	<15
	6/29/05	230 *	koj rodakoj s u 1821. dan koj d	6.1	7.2	15	<15
		C NO.					
M	ICL	N/A	1.0	150	700	1,750	13
Industrial Groundwater	SL Commercial / I Land Use; Not a Potential rinking Water	500	46	130	290	13	1,800

Table II, Summary of Groundwater Sample Hydrocarbon Analytical Results; continued

Notes:	μ g /L	=	Micrograms per liter
	mg/L	=	Milligrams per liter
	TPH	=	Total Petroleum Hydrocarbons
	MTBE	=	Methyl tert-butyl ether
	DO	=	Dissolved oxygen
	<x< td=""><td>=</td><td>Less than the analytical detection limit (x)</td></x<>	=	Less than the analytical detection limit (x)
	EPA	=	Environmental Protection Agency
	N/A	=	Not applicable
	NA	=	Not analyzed
	MCL	=	Maximum Contaminant Level
	>Sol.	=	Greater than the solubility of pure product in water
	RWQCB	=	Regional Water Quality Control Board
	RBSL	=	Risk Based Screening Level
		=	Laboratory note indicates the unmodified or weakly modified gasoline is significant.
	b	=	Confirmed with EPA Method 8260.
	c	=	Groundwater samples for MW-1 and MW-3 suspected to have been switched (mismarked) in
			field. First collection of groundwater samples after application of Hydrogen Peroxide on
			March 7, 2001.
	d	=	Analysis conducted by EPA Method 8260. See Table III.
	*	=	Initial data set collected under direction of Blymyer Engineers, Inc.

Bold results indicate detectable analyte concentrations. Shaded results indicate analyte concentrations above the MCL.

Sample	Date		E	PA Method	8260B	
ID		DIPE	ETBE	мтве	TAME	ТВА
		(μg/L)	(μg/L)	(μ g/L)	(μg/L)	(μ g/ L)
MW-1	3/17/03	<0.50	<0.50	10	8.3	<5.0
	6/23/03	<2.5	<2.5	8.0	6.4	<25
	9/18/03	<2.5	<2.5	8.5	5.3	<25
	12/15/03 ¹	<0.5	<0.5	12	9.0	<5.0
MW-2	3/17/03	<0.50	<0.50	13	2.1	6.0
	6/23/03	<0.50	<0.50	11	4.5	<5.0
	9/18/03	<2.5	<2.5	5.0	0.74	<25
	12/15/03 ¹	<0.5	<0.5	13	3.2	5.2
MW-3	3/17/03	<0.50	<0.50	10	4.3	8.6
	6/23/03	<0.50	<0.50	5.6	2.6	<5.0
	9/18/03	<2.5	<2.5	10	3.6	<25
	12/15/03 ¹	<0.5	<0.5	13	2.7	<5.0
				r samto render A segui callagio	ana na siska Argiden paga	in enginenga ingga Mara anggaya dangga

Notes: DIPE = Di-isopropyl ether

ETBE = Ethyl tert-Butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol μ g/L = Micrograms per liter

 μ g/L = Micrograms per liter

After this date, fuel oxygenates were monitored using MTBE detected by EPA Method 8020B, as a proxy for the approximate concentration of the remaining fuel oxygenates.

	Table IV, S	Belgie Belgi	oundwater Intens b: No. 203104. Eie * Avennel Caktair	iti Beverage a		
Sample ID	Sample Date	Field Meter	Field Meter	Field Test Kit	Field Meter	Field Meter
		Dissolved Oxygen	Oxidation Reduction Potential	Ferrous Iron (Fe ²⁺)	Field Temperature	Field pH
		mg/L	mV	mg/L	°F/°C	pH units
	3/17/03	NA	NA	NA	60.4 / 60.0 *	7.1 / 7.3
MW-1	6/23/03	0.4	NA	NA	61.0 / 61.0 *	6.9 / 6.9
	9/18/03	0.4	NA	NA	65.1 / 62.9 *	7.1 / 6.9
	12/15/03	1.1	NA	NA	13.1 / 13.4	6.8 / 6.7
	6/15/04	0.05	NA	NA	64.5 / 63.4 *	6.9 / 7.0
	12/15/04	NA	NA	NA	15.4 / 17.5	7.0 / 6.9
	6/29/05	0.24 / 0.17	-150.7 / -157.2	4.5	19.78 / 21.63	7.15 / 7.08
	3/17/03	NA	NA	NA	66.0 / 64.2 *	7.4 / 7.9
MW-2	6/23/03	0.6	NA	NA	62.1 / 61.8 *	6.8 / 7.1
	9/18/03	1.3	NA	NA	66.7 / 63.7 *	6.7 / 6.9
	12/15/03	1.6	NA	NA	13.2 / 13.4	6.6 / 6.6
	6/15/04	0.05	NA	NA	64.5 / 65.0 *	6.3 / 7.1
	12/15/04	NA	NA	NA	16.9 / 17.0	7.1 / 7.1
	6/29/05	0.19 / 0.24	-86.0 / -119.1	0.7	18.58 / 21.18	7.12 / 7.13
	3/17/03	NA NA	NA	NA	63.3 / 60.9 *	7.4 / 7.6
MW-3	6/23/03	0.7	NA	NA '	66.4 / 66.9 *	7.3 / 7.2
	9/18/03	0.4	NA	NA	63.7 / 62.6 *	7.1 / 7.1
	12/15/03	1.6	NA	NA	14.7 / 15.1	6.5 / 6.4
	6/15/04	0.04	NA	NA	63.1 / 62.3 *	7.5 / 7.1
	12/15/04	NA	NA	NA	15.4 / 16.7	7.2 / 7.0
	6/29/05	0.72 / 0.78	141.7 / -67.6	0.9	17.65 / 18.79	6.94 / 7.02

Notes: mV = Millivolt

mg/L = milligrams per liter

°F/°C = degrees Fahrenheit / degrees Centigrade

* = degrees Fahrenheit

NA = Not analyzed

2.6 / 2.2 = Initial reading (pre-purge) / Final reading (post-purge)

Fig.		<u> Caminata nagar</u>	cangle Blockmenta (As Rista Revesa Jaklanda Californi		
ID	Date	SM 5310B	Metho E300	od	Method RSK 174
		CO ₂	Nitrate (as N)	Sulfate	Methane
			mg/L		μg/L
MW-1	6/29/05	490	<0.1	5.4	5,900
MW-2	6/29/05	250	4.1	42	68
MW-3	6/29/05	230	3.5	33	370
#80 00 Mag		and the second			

Notes:

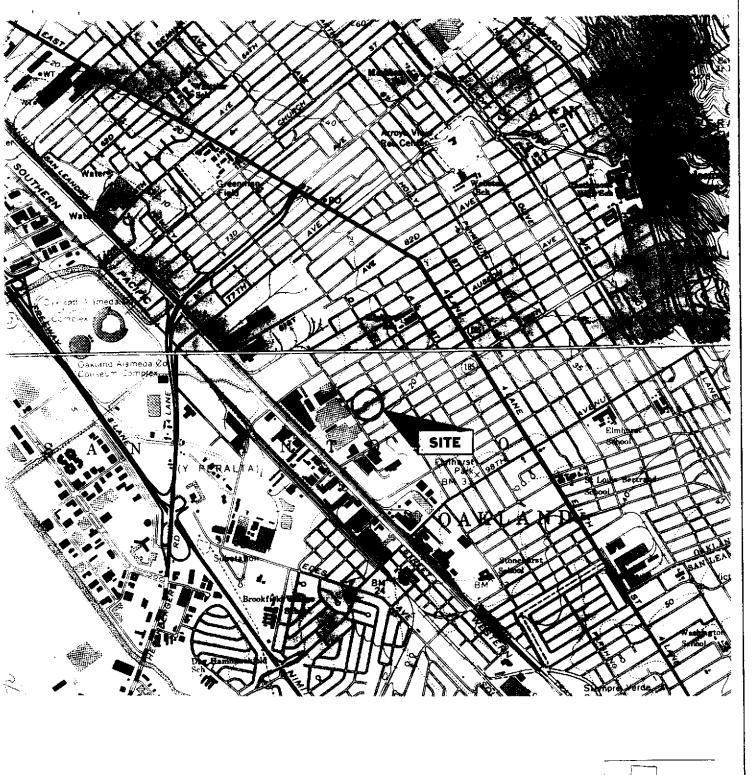
SM

Standard Method

mg/L μg/L CO₂

Milligrams per liter

Micrograms per liter Carbon dioxide





UNITED STATES GEOLOGICAL SURVEY 7.5 QUADS. "CAKLAND EAST, CA & SAN LEANDRO, CA", SOTH PHOTOREVISED 1981.

BLYMYER ENGINEERS, INC.

3-19-03 PEI JOB NO. 203004 DATE

0 1000 2000

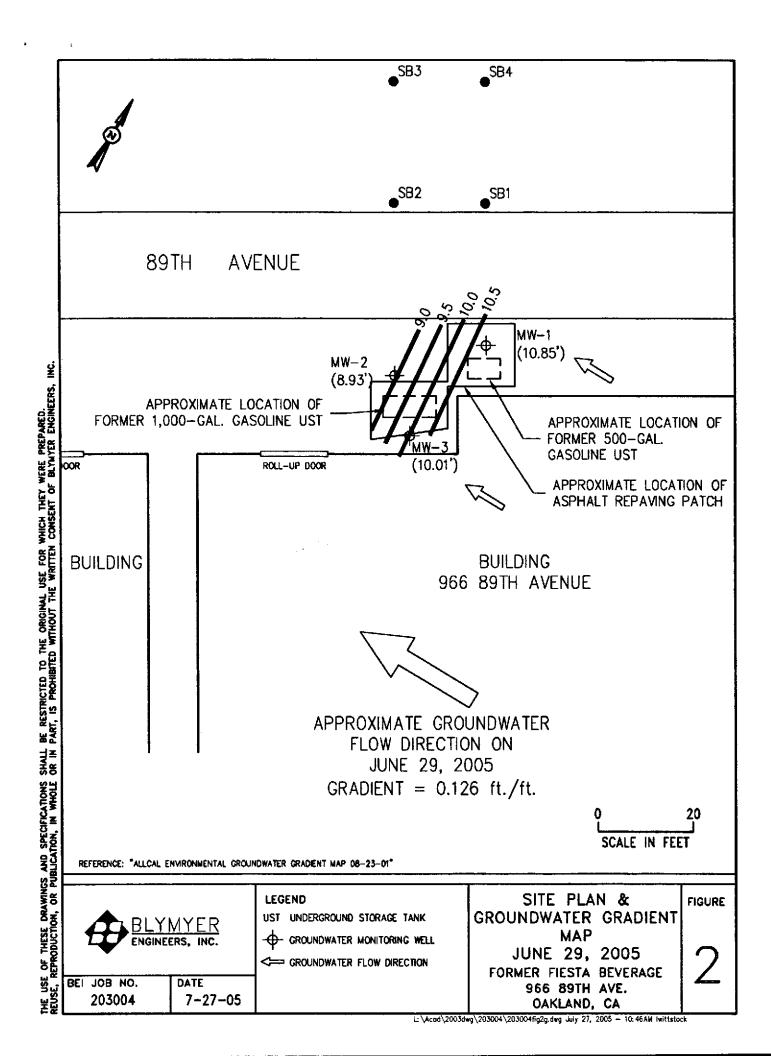
SCALE IN FEET



SITE LOCATION MAP

FORMER FIESTA BEVERAGE 966 89TH AVE. OAKLAND, CA FIGURE





Appendix A
Standard Operating Procedures
Blaine Tech Services, Inc.

Blaine Tech Services, Inc. Standard Operating Procedure FLOW CELL PURGING AND SAMPLING

Flow Cell purging provides the user with a constant stream of real time, highly accurate water quality information during the purge process. Typically, this equipment is utilized as part of the Low-Flow sampling process, where parameter stabilization is the most important prerequisite prior to sample collection and/or when very accurate Dissolved Oxygen measurements are required.

The Flow Cell system consists a flow ceil, a sonde, a display unit and various hose lines. Flow cell system brands commonly used by BLAINE include YSI, HORIBA and QED. A separate pump must be used to supply the flow of water to the Flow Cell. The pump must be capable of purging water at rates that are variable and low. The most common purge pump used is the Grunfos Redi-Flo II variable speed electric submersible pump. Both peristaltic and pneumatic bladder pumps are common alternatives.

As the Low-Flow methodology stipulates sampling through the purge tube (as opposed to a bailer) to minimize disturbance to the water column, dedicated, small-diameter tubing is typically used.

Flow cell purging and sampling using dedicated, in-place, pump

- 1. Plug the display unit into the sonde.
- 2. Calibrate the sonde for all parameters using the supplied calibration fluids, following the manufacturer's instruction manual.
- Connect the flow cell to the sonde.
- 4. Without disturbing the water column in the well, connect the water line from the inplace pump to the lower end of the flow cell.
- 5. Connect a water discharge line to the upper end of the flow cell.
- 6. Without disturbing the water column, connect the power source (electricity, compressed air, etc.) to the in-place pump.
- 7. Lower an electronic water level indicator (sounder) slowly into the well until it hits the water surface.
- 8. While monitoring the sounder, commence pumping at a rate that does not induce draw-down in the well.
- 9. Collect parameter measurements from the display unit as per job specifications (ie. every 1 minute, every 3 minutes, etc.).
- 10. Monitor flow cell to make sure it remains free of air bubbles.
- 11. Once parameters have stabilized, adjust the pump rate to the lowest technically feasible setting.
- 12. Disconnect the water line from the lower end of the flow cell.
- 13. Fill the appropriate sample containers.
- 14. Remove power supply and sounder from well.

Appendix B

Well Monitoring Data Sheets and Well Gauging Data,
Dated June 29, 2005
Blaine Tech Services, Inc.

WELLHEAD INSPECTION CHECKLIST

Page of

Date 6 29	<u>05</u>	Client	Blyn	er Eng	<u>, </u>		<u>-</u> -	
Site Address	or her Fie	sta Be	<i>1evage</i>	1007	land			
Job Number 25	0629-PC41			Тес	hnician	D.Corni	sh	
Well ID	Well inspected - No Corrective Action Required	Water Balled From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Olher Action Taken (explain below)	Welt Not inspected (explain below)
MU-1	K	×	R					1 22007
MU-Z		ļ					4	
M O.3	~		~					
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	-							
		<u></u>						
NOTES:	W-2 - 2/2 ta	ibs broke	12/2/	oolfs mi	<u> </u>	wellhood !	below (vow	de; wellbox. Full of mud
				· · · · · · · · · · · · · · · · · · ·			0	tullot pend
M -	1-12 h	205 14	الا					
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			· · · · · · · · · · · · · · · · · · ·					
						· ·		

WELL GAUGING DATA

Project # 050629.PC Date	6 z9 Client	Blymer Eng.
Site 966 89th Ave, Oakland	J.	

		1	i	Thickness	Valer C			 	<u> </u>
į į	Well		Depth to	of	Volume of Immiscibles				
	Size	Sheen /	Immiscible	Immiscible				Survey	
Well ID	(in.)	Odor				Depth to water		Point: TOB	
Well ID	(111.)	Ouor	Liquid (ft.)	Liquid (ft.)	(ml)	(ft.)	bottom (ft.)	or CO	
MU-1	2					7.68	14.44	TOC	
MUZ	2					1			
MU ³	2					9.00	2400 24.95		
									
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Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

100

		<u> </u>	LOW WE	TITL TATOMA	TOKING	PLATA	SHLEI	
Project #	:050629.	PCI		Client: RU	rver			
Sampler:				Start Date:	Glzala	5		
Well I.D.	: Mw-1			Well Diam	neter: Ø	3 4	6 8	
Total We	ll Depth:	<u>4.44</u>		Depth to V	Vater	Pre: 7.	Be Post:	
Depth to	Free Produ	ıct:		Thickness	of Free P			
Reference	ed to:	Ø	Grade	Flow Cell	Туре:	SI 55%	2	
Purge Methors Sampling M		©" Grundf Dedicated ml mm	fos Pump	•	Peristaltic I New Tubin Pump Dept	Pump	Bladder Pump Other	
Time	Temp.	pН	Cond. (mS or 🔊	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or 10)	(F4) DTU 2 Observations
1840	19.78	F.15	867	21000	0.24	-150.7	900	B 47
1043	20.27	7.09	897	440	032	-165.8	-	0.48
1046	20.60	7-10	906	138	0.27	-172.4	2700	848
ાજ્ય ૧	21.05	310	911	52	019	-1656		8.48
1052	21.54	7.98	915	42	0.13	155.5	4500	8.48
1055	21.63	7-08	916	40	0-17	-157.7	5400	8-48
·····			-					
_								
			PostPurge	Fe2++4.5	ryll.		· 	
			•					•
Did well	dewater?	Yes	<u> </u>		Amount a	actually e	vacuated: 5.1	
Sampling	Time:			-	Sampling			16
Sample I.			 	······································	Laborator			· · · · · · · · · · · · · · · · · · ·
Analyzed		TPH-G	BTEX MTB			Other: Se	•	
Equipmen	nt Blank I.I	D.:	@ Time	·	Duplicate			

LOW FLOW WELL MONITORING DATA SHEET

Project #	o SO621-	PCI		Client: 18	lymer						
Sampler:	PC			Start Date	Glzalos	,					
Well I.D.	: MW-2			Well Dian	_		6 8				
Total We	ll Depth:	ત્રેપ. <i>0</i> 0		Depth to V	Water	Pre: 9.	Post:				
1	Free Produ		 	Thickness	Thickness of Free Product (feet):						
Reference	ed to:	(EVE)	Grade	Flow Cell Type: VST: 556							
Purge Meth Sampling M Flow Rate:	lethod:	2" Grundfo Dedicated Mlmin	Tubing		Peristaltic Pump New Tubing Pump Depth: 22						
Time	Temp.	pН	Cond. (mS or 🚯)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or 10)	Observations			
952	18.58	7.12	679	OPOK	0.19	-860	900	9.IB			
955	18-83	7-12	678	938	0.19	-106-2	(8 00	9.18			
958	19.67	7.0B	677	486	0.28	-1196	2.7 <i>9</i> 0	9-20			
1001	20.31	7.08	678	276	0.33	-118.5	3600	921			
1004	20-64	7.10	682	149	6-32	-114.8		9-28			
1007	20.97	7.11	601	99	0.79	-119.)	5400	9.28			
1010	20.86	7.12	681	75	0.26	-124-1	6300	9.27			
1013	21.18	7-13	679	68	0-24	-119.	7200	9-27			
				`							
			PostiPune	Fe2+ 0.	t male						
:								·r			
Did well	dewater?	Yes (®	· · · · · · · · · · · · · · · · · · ·	Amount a	actually e	vacuated: 7.3	3 L			
Sampling	Time: 10	lB			Sampling	Date: 4	129106				
Sample I.	D.: mw-2	/			Laborato						
Analyzed	for:	трн-с	втех мте			Other: 🙎	•	^			
Equipmen	nt Blank I.	D.:	@ Time		Duplicate	i.D.:		· · · · · · · · · · · · · · · · · · ·			

LOW FLOW WELL MONITORING DATA SHEET

			<u> </u>	722 111 O113	TIOMIN	DAIA	CITTLE I				
Project #:	: 050			Client: 2/	ymer						
Sampler:	PC			Client: >/ Start Date	: 6/zalo	15					
Well I.D.	: MW-3			Well Diam	_		6 8				
Total We	ا Depth: ح	4.95		Depth to V		Pre:4	Post:				
Depth to	Free Produ	uct:		Thickness				(i)			
Reference	ed to:	€G@	Grade		Flow Cell Type: YSI 556						
Purge Metho Sampling M	lethod:	C2" Grundfe Dedicated	-		Peristaltic Pump New Tubing Other						
Flow Rate:	350.	MI WW		· · · · · · · · · · · · · · · · · · ·	Pump Deptl	h: <u>ZZ`</u>					
Time	Temp.	pН	Cond. (mS or æ\$)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed	(FL.) Prot. Observations			
850	17.65	694	610	>1000	0-72	141.7	1050	8.99			
653	17.63	6-83	605	71000	0.73	476	2100 1800 R	5 19			
856	17.69	6.82	604	71000	0.73	21.6	3520 3520	Bit			
859	18-10	6.87	604	राङ्क	0.74	-10.6	1 1300 200 €	& 94			
902	18.37	6.81	604	122	0-74	-19.1	5450 4050 A	8.97			
905	18-60	6.97	604		0.76	-328	6500 180 R	9.00			
908	[8.67	695	604	32	0.87	-49.9	7650	9.00			
911	18.77	6-97	604	26	0.86	-61.6	6700	900			
914	(8.8)	6.99	605	16	0.84	-71.7] -	9.00			
917	18-79	7.02	<i>€</i> 711	le	0.78	-676		9.00			
			902	wyste 21 =	O, O'mal						
Did well o	dewater?	Yes	6	4.3	, 11	-	vacuated: 10.	.øL			
Sampling	Sampling Time: 922 Sampling Date: 6/21/05										
Sample I.I	D.: MW-3	<u> </u>			Laborator	ry: Mc(a	unobell				
Analyzed	for:	TPH-G	втех мтв			Other: se	•				
Equipmen	nt Blank I.I	D.:	@ Time		Duplicate	; I.D.:					

HAIN OF CUS LIENT	SAN JOSE, CALIFORNIA 95/12-FAX (408) 573-CH SERVICES, NC. PHONE (408) 573-NT BTS # 050629-FC.							*							LAB NALYSES MUST N LIMITS SET BY CALIFO EPA LIA OTHER	RNIA DHS AND		ON
	Blymyer Engineers, Inc.				rc1	NERS		B)				5310B)			SPECIAL INSTRUCTION	NS		
						CONTAINERS		(8021B)		00.1)	4	(SM 5			Invoice and Repor	t to: Blymy	er Enginee	ers, Inc.
	966 89th					AL C	_	3E (e (3	ξ 17	de (Attn: Mark Detter	rman		
<u></u>	Oakland,					ITEA	(8012)	MTBE		ılfat	RSE	ioxi			EDF Format Requ	nired.	•	
<u> </u>	Oesdelid,		MATRIX	CON	TANERS	COMPOSITE	8) D-I		aprir 12	Nitrate, Sulfate (300.1)	Methane (RSK 174)	Carbon Dioxide			and the same of the same of		 	a compression of the second
AARDI E I D	DATE	TIME	S= SOIL W=H20	TOTAL	ĺ	0=0	TPH-G	BTEX		Z	Me	3			ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
AMPLE I.D.	6 Mes		U	8			4	1		1	1	1						
Mr. 2	<u> </u>	1016		8			*	A		1	*	1						
MWZ	士	16 922	+	8			K	^		1	A	1	 	_				
	. 		<u> </u>	<u> </u>		↓_		-	-	 	<u> </u>	├	┼-	-				
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SAMPLING	DATE	•	SAMPL	LING DRMED I	3Y 0:		 - 	1	<u></u>	<u> </u>	<u>L</u> _	<u> </u>	!		RESULTS NEEDED NO LATER THAN	As contracte	d	
COMPLETED RELEASED BY	6/29/6	<u>s 1110</u>	1		Polo	10A DA	15	95		724		┡╌	CEIVE	1	SHITE CO	STODIAN	DATE, 6/20/0	TIME
RELEASED BY		SAME	COSTA	OW		DA 61	28/6			E 528			CEIVE			<u></u>	629/	1 - 11-
RELEASED BY				,		DA	TE		TIM	E			CEIVE	<i>y</i>			7 /	

Appendix C

Analytical Laboratory Report
Dated July 7, 2005
McCampbell Analytical, Inc.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

Blymyer Engineers, Inc.	Client Project ID: Former Fiesta Beverage	Date Sampled: 06/29/05
1829 Clement Avenue		Date Received: 06/29/05
Alameda, CA 94501-1395	Client Contact: Mark Detterman	Date Reported: 07/07/05
Alaineda, CA 94301-1393	Client P.O.:	Date Completed: 07/07/05

WorkOrder: 0506549

July 07, 2005

Dear Mark:

Enclosed are:

- 1). the results of 3 analyzed samples from your Former Fiesta Beverage project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager



Extraction method: SW5030B

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

Work Order: 0506549

Blymyer Engineers, Inc.	Client Project ID: Former Fiesta Beverage	Date Sampled: 06/29/05
1829 Clement Avenue		Date Received: 06/29/05
Alameda, CA 94501-1395	Client Contact: Mark Detterman	Date Extracted: 07/01/05-07/02/05
Manieua, CA 74301-1393	Client P.O.:	Date Analyzed: 07/01/05-07/02/05

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Analytical methods: SW8021B/8015Cm

Lab ID	Client ID	Matrix	TPH(g)	мтве	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	w	5500,a	ND<100	750	27	94	140	10	119
002A	MW-2	w	130,a	6.7	29	2.0	3.3	3.4	1	. 95
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003A	MW-3	w	230,a	ND<15	27	6.1	7.2	15	1 1 1 113
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Reporting Limit for DF =1; ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	l μg/L
above the reporting limit	S	NA	NA	NA	NA	NA	NA	1 mg/Kg

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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Blymyer Engineers, Inc.	Client	Project ID: Former Fiesta Beve	rage Date Sampled: 06	Date Sampled: 06/29/05				
1829 Clement Avenue			Date Received: 06	/29/05				
Alameda, CA 94501-1395	Client	Contact: Mark Detterman	Date Extracted: 06/	29/05				
Alameda, CA 94301-1393	Client	P.O.;	Date Analyzed: 06	/29/05-06/	30/05			
ixtraction method: E300.1		Inorganic Anions by IC* Analytical methods: E300.1		Work C	order: 0506549			
Lab ID Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS			
0506549-001B ; MW-1	w	ND	5.4	1	101			
0506549-002B MW-2	w	4.1	42	1	102			
0506549-003B MW-3	w	3.5	33	1	101			
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Reporting Limit for DF =1;	w	0.1	0.1	r	ng/L			
ND means not detected at or above the reporting limit	S	NA	NA	į m	ıg/Kg			



^{*} water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

[#] surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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1.2		<u></u>					 				
Blymyer Enginee	ers, Inc.	Client Project II	D: Former F	iesta Beverage	Date Sampled:						
1829 Clement A	venue				Date Received:	06/29/05					
Alameda, CA 94	501-1395	Client Contact:	Mark Detter	man	Date Extracted	07/01/05					
		Client P.O.:			Date Analyzed:	07/01/05					
			Methane*								
Analytical Method: R		ent ID	Matrix	<u> </u>	Methane	Work Order:	0506549 DF				
Lab ID	Cit	:nt 1D	Matrix		Wemane		DI.				
0506549-001C		IW-1	w 		5900		5000				
0506549-002C	. M	IW-2	w		68		50				
0506549-003C	M	IW-3	w		370		200				
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			<u> </u>	· · · · · · · · · · · · · · · · · · ·		***					
Reporting Limit	t for DF = 1: ND mea above the reporting l	ns not detected at or limit	w s		0.5 μg/L NA						
* water samples are r	eported in µg/L.	<u> </u>			**************************************						



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Blymyer Engineers, In	c. Client Project 1	D: Former Fi	esta Beverage	Date Sampled: 06	5/29/05
1829 Clement Avenue				Date Received: 06	6/29/05
Alameda, CA 94501-1	Client Contact:	Mark Dettern	nan	Date Extracted: 06	5/29/05
Alameda, CA 94501-1	Client P.O.:			Date Analyzed: 07	7/01/05
Analytical Method: \$M5310 E		rbon as Carb	on Dioxide (C	O2)*	Work Order: 0506549
1.ab ID	Client ID	Matrix	· · · · · · · · · · · · · · · · · · ·	IC as CO2	DF
0506549-001D	MW-1	w		490	5
0506549-002D	MW-2	W		250	5
0506549-003D	MW-3	w		230	. 5
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	= 1; ND means not detected at or	w		2.6 mg/L	· · · · · · · · · · · · · · · · · · ·
ahove	the reporting limit	S		NA NA	

i) liquid sample contains greater than ~1 vol. % sediment.

^{*} water samples are reported in mg/L, soil/sludge/solid samples in mg/kg.

^{*} Non-Purgeable Organic Carbon * NPOC; TOC=Total Organic Carbon; DOC=Dissolved Organic Carbon; POC=Purgeable Organic Cabon; IC=Inorganic Carbon.



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0506549

EPA Method: SW8021B/	8015Cm E	xtraction:	SW5030B		Batc	hID: 1691:	3	Spiked Sample ID: 0506550-010A			
Analida	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Analyte	μ g/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSC	
TPH(btex) [£]	ND	60	103	95.9	6.67	103	100	2.56	70 - 130	70 - 130	
мтве	ND	10	93	98	5.23	96.2	89.4	7.41	70 - 130	70 - 130	
Benzene	ND	10	92.6	95	2.50	89.6	93.3	4.02	70 - 130	70 - 130	
Toluene	ND	10	93.4	92.7	0.813	91	94.7	3.92	70 - 130	70 - 130	
Ethylbenzene	ND	10	94.3	96.2	2.04	96.8	103	5.91	70 - 130	70 - 130	
Xylenes	ND	30	85.7	86	0.388	92.3	96.7	4.59	70 - 130	70 - 130	
%SS:	112	10	104	104	0	110	109	1.39	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 16913 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506549-001A	6/29/05 11:02 AM	7/01/05	7/01/05 10:58 PM	0506549-002A	6/29/05 10:18 AM	7/02/05	7/02/05 10:20 AM
0506549-003A	6/29/05 9:22 AM	7/02/05	7/02/05 7:02 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR RSK174

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0506549

EPA Method: RSK174	E	Extraction: RSK174				hID: 16918	Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS LCSD	LCS-LCSD	Acceptance	Criteria (%)		
, ,,,,,,,,	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec. % Rec.	% RPD	MS / MSD	LCS / LCSD		
Methane	N/A	1.5	N/A	N/A	N/A	117 119	2.25	N/A	80 - 120		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 16918 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506549-001C	6/29/05 11:02 AM	7/01/05	7/01/05 5:13 PM	0506549-002C	6/29/05 10:18 AM	7/01/05	7/01/05 4:14 PM
0506549-003C	6/29/05 9:22 AM	7/01/05	7/01/05 4:44 PM	<u> </u>			

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

_____QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0506549

EPA Method: E300.1	E	xtraction:	E300.1		Batc	hID: 1691	7	Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)		
Alayio	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
Nitrate as N	N/A	ı	N/A	N/A	N/A	95.4	94.8	0.615	N/A	85 - 115		
Sulfate	N/A	ı	N/A	N/A	N/A	113	106	5.76	N/A	85 - 115		
%SS:	N/A	0.10	N/A	N/A	N/A	104	102	1.67	N/A	90 - 115		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 16917 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506549-001b	6/29/05 11:02 AM	6/29/05	6/29/05 11:01 AM	0506549-002b	6/29/05 10:18 AM	6/29/05	6/29/05 11:30 AM
0506549-002b	6/29/05 10:18 AM	6/29/05	6/30/05 8:31 PM	0506549-003b	6/29/05 9:22 AM	6/29/05	6/29/05 11:58 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer



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QC SUMMARY REPORT FOR SM5310B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0506549

EPA Method: SM5310 B	E	xtraction:	SM5310B		Batc	hID: 1691	9	Spiked Sample ID: 0506549-003D				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)		
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
IC as CO2	230	36.7	NR	NR	NR	103	104	1.35	80 - 120	80 - 120		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 16919 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506549-001D	6/29/05 11:02 AM	6/29/05	7/01/05 3:37 PM	0506549-002D	6/29/05 10:18 AM	6/29/05	7/01/05 3:44 PM
0506549-003D	6/29/05 9:22 AM	6/29/05	7/01/05 3:51 PM	I !			

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

INR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

_____QA/QC Officer

		Beig	7	050	UO 54	ΨŢ												
		`	16	80 ROG	ERS AVENI	JE		CON	DUCT	ANAL	YSIS 7	O DE	TECT		LAB	McCampbell		DHS#
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SITE	Former	Fiesta B	leverag	e		CONTAINERS		(8021B)		Sulfate (300.1)	₹	(SM			Invoice and Repo	ort to: Blyn	nyer Engine	ers, Inc.
			<u>~</u>	2						0	174)				Attn: Mark Dett		-	
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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0506549

ClientID: BEIA

Report to:

Mark Detterman

Blymyer Engineers, Inc. 1829 Clement Avenue

Alameda, CA 94501-1395

TEL:

(510) 521-3773 (510) 865-2594

FAX:

ProjectNo: Former Fiesta Beverage

Bill to:

Blymyer Engineers, Inc.

Blymyer Engineers, Inc. 1829 Clement Avenue

Alameda, CA 94501-1395

Requested TAT:

5 days

Date Received:

06/29/2005

Date Printed: 06/29/2005

-									Requested	Tests	(S	ee lege	nd be	elow)					
Sample ID	ClientSampID	Matrix	Collection Date Hol	id 1	2	3	4	5	6	7		В	9	10	11	12	13	14	15
0506549-001 0506549-002 0506549-003	MW-1 MW-2 MW-3	Water Water Water	6/29/05 11:02:00 6/29/05 10:18:00 6/29/05 9:22:00 AM	B B	A A A	D D	Α .	C C	· · · · · · · · · · · · · · · · · · ·		- 	:		÷	•				

Test Legend:

1	300_1_W	2	G-MBTEX_W	3	IC_W	4 PREDF REI	PORT 5	RSK174_W
6		7		8		9 ·	10	
11		12		13		14.	15	

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.