

Conor Pacific



Transmittal

To: Mr. Balaji S. Angle
 B&C Gas Mini Mart
 35584 Connovan Lane
 Fremont, CA 94536

From: Katrin Schliewen
Date: October 2, 2003
Proj. No.: BNC103

Copies	Description	Sent by:
2	Third Quarter 2003 Groundwater Monitoring Results, B&C Gas Mini Mart, 2008 First Street, Livermore, California (Station ID 1689)	<input checked="" type="checkbox"/> Regular Mail <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> Other

Comments:

Alameda County
 OCT 01 2003
 Environmental Health

cc:

Copies	Name & Address	Sent by:
1	Donna Drogoš, Alameda County Environmental Health Services	<input checked="" type="checkbox"/> Regular Mail <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> Other
1	Colleen Winey, Alameda County Flood Control, District Zone 7	
1	RWQCB, San Francisco Bay Region LUFT	
(1)	SWRCB, UST Fund (sent to Mr. Angle for submittal to UST Fund)	

**THIRD QUARTER 2003
GROUNDWATER MONITORING RESULTS
B&C Gas Mini Mart
Livermore, California**

Prepared by

Conor Pacific
2580 Wyandotte Street, Suite G
Mountain View, California 94043

October 2003

Project BNC 103

*Alameda County
OCT 9, 2003
Environmental Health*

Conor Pacific

October 1, 2003
Project No. BNC103

Mr. Balaji Angle
B & C Gas Mini Mart
35584 Connovan Lane
Fremont, CA 94536

Re: Third Quarter 2003 Groundwater Monitoring Results, B&C
Gas Mini Mart, 2008 First Street, Livermore, California (Station ID 1689)

Dear Mr. Angle:

Conor Pacific has compiled third quarter 2003 groundwater monitoring results for B&C Gas Mini Mart (B&C), 2008 First Street, Livermore, California (Figure 1). This report includes groundwater elevation data, groundwater sampling methods, and results of groundwater chemical analyses. At the request of Alameda County Environmental Health (ACEH), all of the sixteen on- and off-site monitoring wells were scheduled for sampling during this quarter.¹ Well MW-6 was not sampled, because of an obstruction in the well casing.

At the request of the ACEH, additional subsurface investigations, including the drilling and installation of four new multi-level groundwater monitoring wells (CMT-1 through CMT-4), were conducted during July and August 2003. A well installation report describing the rationale of the new well locations and depths, the methods used to drill and construct the wells, and presenting the analytical results from the first sampling event, will be submitted separately. Analytical results obtained from the new multi-level wells during subsequent groundwater monitoring events will be included in the routine quarterly groundwater monitoring reports.

SITE INFORMATION

Site Name & Contact

Mr. Balaji Angle
B&C Gas Mini Mart
2008 First Street
Livermore, California 94550
(510) 654-3461

¹ Alameda County Environmental Health Services (ACEHS), 2003. Fuel Leak Case No. R0278, Desert Petroleum/BP Oil, 2008 1st Street, Livermore, CA. Letter prepared by Donna Drogos and dated January 22, 2003.

Site Description

The B&C property is located on the northeast corner of First and South L Streets in Livermore, California, and currently serves as a gasoline station and mini market and is called Valley Gas. From at least 1988 until 1994, Desert Petroleum (DP) owned and operated the site. In January 1994, DP sold the site to the current owner, Mr. Balaji Angle. The following site description has been compiled from reports on file with Alameda County Environmental Health Services (ACEHS) and information provided by the site owner.

The site is located in the Livermore Valley groundwater basin, an area of sedimentary deposition containing braided channel systems with complex interfingering. Subsurface investigations conducted to the west of the B&C site have found an upper unconfined water-bearing zone consisting primarily of gravels with sand and clay. A low-permeability clayey unit is found at depths of approximately 75 to 110 feet below ground surface (bgs). Below the clayey unit, the top of a lower, semi-confined aquifer is found at depths ranging from 110 to 145 feet bgs.²

Subsurface work conducted in the B&C area has found predominantly sandy clay, silty sand, silty gravel, and sandy gravel. Over the last 15 years, static water levels have ranged from a low of 69 feet bgs (January 1992) to a high of 17 feet bgs (February 1997). The groundwater flow generally ranges from west of north during the summer and fall months, to north of west during the winter and spring months.

Previous Work Performed at Site

A preliminary site assessment was conducted in September 1988. Three soil borings were completed; one of which was converted to a monitoring well (MW-1). In March 1994, a 280-gallon waste oil underground storage tank (UST) and 25 cubic yards of soil were removed as part of closing the auto repair shop at the station. Three months later in June, wells MW-2, MW-3, and MW-4 were installed (Figure 2).³

In August 1994, free product was encountered in well MW-2, and product removal commenced twice a month. By the end of January 1995 no measurable thickness of product remained, only sheen could be detected.⁴ In March 1995, a release was reported to have occurred from the union between a tank subpump and product line. The quantity of the release is unknown.

One gasoline UST at the B&C site failed an integrity test in September 1995. The tank was immediately taken out of commission and ACEHS was notified. In July 1996,

² H⁺GCL, Inc. Deep Groundwater Conduit Study, Livermore Arcade Shopping Center, First Street and South P Street, Livermore, California. December 6, 1993.

³ Remediation Service Int'l. Soil & Groundwater Investigation Report for 2008 First Street, Livermore, California. July 22, 1994.

⁴ Product thickness information from Remediation Service, Int'l field records, "Free Product Removal Logs."

further source removal was conducted. Two more gasoline USTs were removed, and new double-walled fiberglass USTs and fiberglass piping with automated leak detection were installed (Figure 2). Other remedial activities included the removal of two hydraulic lifts and approximately 700 cubic yards of impacted soil. Also, one 1,000-gallon UST discovered during excavation activities was closed in place with approval from ACEHS and the Livermore Fire Department by grouting with a cement sand slurry. In October 1995, two additional monitoring wells (off-site well MW-5 and well MW-6) were installed for the B&C site (Figure 2).

Nine downgradient wells (MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, D-1, and D-2) were installed during June and July 1999 to define the downgradient and lateral extent of the plume and provide long-term monitoring locations (Figure 2).⁵ Two of the wells, D-1 and D-2, are installed in the semi-confined aquifer below the aquitard. The other wells are installed in the upper water-bearing zone. Table 1 summarizes the well construction details for all on-site and off-site wells installed to date.

The primary constituents of concern are total petroleum hydrocarbons as gasoline (TPH-G); the aromatic compounds benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX); and methyl tertiary-butyl ether (MTBE). Since 1994, concentrations of TPH-G in groundwater generally have decreased.

Interim Remedial Action at Well MW-5

Floating product first was observed in well MW-5 on July 30, 1998. The well is screened from 15 to 40 feet bgs, and the depth to groundwater has historically ranged from 18 to 33 feet bgs, well within the screened interval of the well. Due to the presence of floating free product in well MW-5, interim remedial actions were taken to remove the floating product from the well. A passive bailer or absorbent sock was selected to remove product from well MW-5 based on well access, the thickness of the product, and the rate at which the product enters the well as it is removed.

Over the time period monitored, the absorbent socks have removed sufficient product to reduce the free product thickness to a sheen or less. During the four sampling events in 2000, free product was not measured in well MW-5 and sampling was conducted. However, free product was observed during the purging of well MW-5 during the March and June 2001 sampling events, and so the absorbent sock was replaced in the well and groundwater samples were not collected. During the September 2002 sampling event, the absorbent sock was above the groundwater surface (the lowest water levels measured to date were measured during this sampling event) and no product was observed on the sock; the sock was re-installed and lowered to intersect the water table. During the last four monitoring events, including the current one, product sheen continues to be observed in the purge water even though no product thickness can be measured. The absorbent sock continues to be replaced and installed to intersect the water table.

⁵ Einarson, Fowler & Watson, November 5, 1999, Report of Downgradient Investigation, B&C Gas Mini Mart, 2008 First Street, Livermore, California.

GROUNDWATER SAMPLING AND ANALYSIS

Sampling activities are reviewed below. Groundwater sampling methods and results are presented and a discussion of historical analytical trends for site monitoring wells is included.

Free Product

During this sampling event, Conor Pacific checked for free product in all site wells. No measurable free product was observed. However, during the purging of well MW-5 and (MS)MW-1, the presence of sheen or small globules of free product were observed. The product thickness could not be measured in these wells because there was too little free product present to be measured using the product probe which measures a minimum of 0.01 feet of product.

Groundwater Elevations

On August 4, 2003, Conor Pacific measured the depth to water in all groundwater monitoring wells. Water levels were measured to the nearest 0.01-foot using a float-activated product probe, according to Conor Pacific's standard measuring protocol,⁶ and were recorded on a water level data sheet (Appendix A). Groundwater elevations are calculated by subtracting depth-to-water measurements from the top of well casing elevations, surveyed to Livermore City datum, mean sea level (MSL).

Table 2 summarizes the groundwater elevations from the current monitoring event (historical groundwater elevations are in Appendix C). A groundwater contour map, based on the current water level measurements, is shown in Figure 3. Compared to last quarter, current groundwater elevations are approximately 3.5 feet lower in most site and off-site wells. The deep zone wells have groundwater elevations approximately 3.3 feet lower than last quarter. Groundwater flow is generally due west and the hydraulic gradient is approximately 0.014 foot per foot. The flow direction and gradient are in accordance with previous results.

A vertically downward gradient was observed between the upper water-bearing zone (MW-11 and MW-12) and the semi-confined aquifer (D-1 and D-2), as has been observed during previous quarters.

Sampling Methods

Conor Pacific sampled 15 of the 16 monitoring wells on August 4 and 5, 2003 (MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, D-1, D-2, and (MS)MW-1), following Conor Pacific's standard protocol. Well MW-6 was not sampled, because of an obstruction in the well casing.

⁶ Einarson, Fowler & Watson. Third Quarter 1998 Groundwater Monitoring Results, B&C Gas Mini Mart, Livermore, California, Appendix A. September 10, 1998.

All wells sampled, except for well MW-2, were purged using a one-use, weighted disposable polyethylene bailer. Well MW-2 was purged using an electric submersible pump. Samples were collected from each well using a disposable bailer, including well MW-2. Field measurements of temperature, pH, dissolved oxygen, turbidity, and electrical conductivity were taken and recorded on water sample field data sheets (Appendix A). All samples were properly stored on the day of sampling. Chain-of-custody documentation accompanied the samples through collection and delivery to the analytical laboratory. Purge water was contained temporarily in 55-gallon drums. A composite sample was collected from the drummed purge water and the purge water was discharged into a sewer clean-out line at the B&C site. The discharge of purge water was conducted under City of Livermore discharge permit no. 1502G(2002-2003).

Analytical Program

Sequoia Analytical of Petaluma, California, a state-certified laboratory, performed all groundwater analyses. At the request of ACEHS, all groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and total xylenes (BTEX) by U.S. Environmental Protection Agency (EPA) Method 8015B, and for oxygenates (methyl tertiary-butyl ether [MTBE], 1,2-dibromoethane [EDB], 1,2-dichloroethane [EDC], di-isopropyl ether [DIPE], ethanol [EtOH], ethyl tert-butyl ether [ETBE], tert-amyl methyl ether [TAME], and tert-butyl alcohol [TBA]) by EPA Method 8260B.⁷ Laboratory analyses occurred within specified holding times and within laboratory quality control standards. The certified analytical reports are located in Appendix B.

Analytical Results

Analytical results for third quarter 2003 are summarized in Table 3 and presented on Figure 4. A table of historical analytical results is included in Appendix C.

Over the last nine years of monitoring at the site, concentrations of benzene have steadily decreased in all site wells. Analysis of site groundwater samples for MTBE began in June 1995. Since then, concentrations of MTBE have decreased significantly. Seasonal changes in hydrocarbon concentrations are evident, probably a reflection of seasonal water level fluctuations.

During the third quarter 2003, other than MTBE, no fuel oxygenates were detected in any of the monitoring wells sampled. No hydrocarbons or fuel oxygenates were detected in monitoring wells MW-4, MW-9, MW-11, MW-12, D-1, and D-2.

Wells MW-1, MW-2, and MW-5 continue to have the highest hydrocarbon and oxygenate concentrations. Downgradient of the site, monitoring wells (MS)MW-1,

⁷ Alameda County Environmental Health (ACEH). 2003. Fuel Leak Case No. R0278, Desert Petroleum/BP Oil, 2008 1st Street, Livermore, CA. Letter dated January 22, 2003 prepared by Donna Drogos.

MW-7, and MW-13 show the presence of TPH-G, benzene, and ethylbenzene. Samples collected from wells MW-7, MW-8, MW-10, and MW-13 resulted in MTBE detections during this quarter, at concentrations ranging from 6.5 µg/L in well MW-10 to 65 µg/L in well MW-13. The MTBE detected occasionally in well MW-10 samples denotes the furthest downgradient detection of this compound; this is the third time since 1999 that MTBE has been detected in well MW-10.

SUMMARY

Third quarter 2003 groundwater monitoring results are consistent with previous monitoring results. The furthest downgradient detection of the hydrocarbon plume this quarter was a low concentration of MTBE detected in well MW-10. This is only the third MTBE detection in well MW-10 since monitoring was begun in June 1999. The furthest consistent downgradient detection of MTBE has occurred in well MW-8.

At the request of ACEHS, a workplan submitted in March 2003 proposed additional investigative work to (1) better define the source area based on existing data and supplemental field work, (2) better characterize the geologic and hydrogeologic environment controlling the contaminant fate and transport, (3) improve the delineation of the downgradient, lateral and vertical extent of the plume, (4) estimate the mass flux of MTBE to water supply well CWS#8, and (5) evaluate the potential for vertical migration of the plume to the water supply aquifer.⁸ The additional subsurface investigations were completed during July and August 2003 with the installation of four multi-level groundwater monitoring wells (CMT-1 through CMT-4).

A separate well installation report will present the drilling and well installation details, as well as discuss the analytical results obtained from the initial sampling event conducted in August 2003. Subsequent analytical results obtained from future sampling of the multi-level wells will be included in the routine quarterly groundwater monitoring reports.

Fourth quarter 2003 groundwater monitoring, including the four newly installed multi-level wells, currently is scheduled for November 24 through December 3, 2003.

⁸ Conor Pacific, *Workplan for Additional Site Characterization and Downgradient Investigation, B&C Gas Mini Mart, 2008 First Street, Livermore, California*, March 5, 2003

Mr. Balaji Angle
October 1, 2003

If you have any questions regarding this report, please call us at (650) 386-3828.

Sincerely,
Conor Pacific



Katrin Schliewen
Project Hydrogeologist



Kris H. Johnson, C.E.G. 1763
Senior Engineering Geologist

cc:

Donna Drogos, Alameda County Environmental Health Services
Colleen Winey, Alameda Co. Flood Control and Water Cons. District Zone 7
Regional Water Quality Control Board, San Francisco Bay Region LUFT
State Water Resources Control Board, UST Fund

Attachments:

Tables

Table 1 - Monitoring Well Constructions
Table 2 - Third Quarter 2003 Groundwater Elevations
Table 3 - Third Quarter 2003 Groundwater Analytical Results

Figures

Figure 1 - Site Location
Figure 2 - Site Plan
Figure 3 - Well Locations and Groundwater Contours (August 2003)
Figure 4 - Groundwater Chemistry (August 2003)

Appendices

Appendix A - Water Sample Field Data Sheets
Appendix B - Laboratory Certified Analytical Report
Appendix C - Historical Groundwater Elevations and Analytical Results

LIMITATIONS

Conor Pacific's services on this project were performed in accordance with current generally accepted environmental consulting principles and practices. This warranty is in lieu of all others, be it expressed or implied. Environmental conditions may exist at the site that could not be observed. Where the scope of services was limited to observations made during site reconnaissance, interviews, and/or review of readily available reports and literature, our conclusions and recommendations are necessarily based largely on information supplied by others, the accuracy and sufficiency of which may not have been independently reviewed by us. Our professional analyses are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions between such sampling points. Additional data from future work or changing conditions may lead to modifications to our professional opinions and recommendations. Any reliance on this report, or portions thereof, by a third party shall be at such party's sole risk.

Table 1
Monitoring Well Constructions
B&C Gas Mini Mart
Livermore, California

Well No.	Drilling Method	Date Installed	T.D. Boring (ft.-bgs)	T.D. Well (ft.-bgs)	Borehole Diameter (inches)	Casing Material (PVC)	Casing Diameter (inches)	Screen Size (inches)	Sand Pack Material	Screened Interval (ft.-bgs)	Sand Pack Interval (ft.-bgs)
MW-1	HSA	Sep-88	77	77	8	PVC	2	0.020	#3 sand	27 - 77	25 - 77
MW-2	HSA	Jun-94	60	60	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-3	HSA	Jun-94	60	60	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-4	HSA	Jun-94	60	60	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-5	HSA	Oct-95	42	40	10	PVC	4	0.020	#2 sand	15 - 40	12 - 40
MW-6	HSA	Oct-95	42	40	10	PVC	4	0.020	#2 sand	15 - 40	12 - 40
MW-7	HSA	Jun-99	62	49	8	PVC	2	0.020	#3 sand	29-49	27-51
MW-8	HSA	Jun-99	62	54	8	PVC	2	0.020	#3 sand	34-54	32-54
MW-9	HSA	Jun-99	45	45	8	PVC	2	0.020	#3 sand	25-45	23-45
MW-10	HSA	Jun-99	55	53.5	8	PVC	2	0.020	#3 sand	33.5-53.5	23-55
MW-11	HSA	Jun-99	50	49	8	PVC	2	0.020	#3 sand	29-49	27-49
MW-12	HSA	Jun-99	45	43.5	8	PVC	2	0.020	#3 sand	23.5-43.5	21-45
MW-13	HSA	Jul-99	55	55	8	PVC	2	0.020	#3 sand	35-55	32-55
D-1	HSA	Jun-99	125	125	8	PVC	2	0.020	#3 sand	110-125	104-125
D-2	HSA	Jun-99	115	114	8	PVC	2	0.020	#3 sand	99-114	94-114
(MS)MW-1	HSA	Apr-89	62	60	NA	PVC	2	NA	NA	30-60	NA

HSA Hollow-Stem Auger
T D. Total Depth
ft -bgs feet below ground surface
NA Not available

Well construction information for wells MW-2 through MW-6 collected from Remediation Service Int'l boring logs.

Table 2
 Third Quarter 2003 Groundwater Elevations
 B & C Gas Mini Mart
 Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
August 4, 2003					
MW-1	484.07	34.15	449.92	NM	NM
MW-2	483.86	33.87	449.99	NM	NM
MW-3	484.24	32.02	452.22	NM	NM
MW-4	485.04	33.60	451.44	NM	NM
MW-5	481.97	33.51	448.46	NM	NM
MW-6	483.93	NM*	NM*		
MW-7	478.14	33.95	444.19	NM	NM
MW-8	473.23	40.15	433.08	NM	NM
MW-9	477.08	36.09	440.99	NM	NM
MW-10	471.42	40.78	430.64	NM	NM
MW-11	464.93	37.05	427.88	NM	NM
MW-12	458.34	31.58	426.76	NM	NM
MW-13	474.79	35.60	439.19	NM	NM
D-1	464.70	39.53	425.17	NM	NM
D-2	457.61	32.65	424.96	NM	NM
(MS)MW-1	477.79	38.01	439.78	NM	NM

Notes:

MSL = mean sea level

NM = not measured, no measureable free product thickness was present

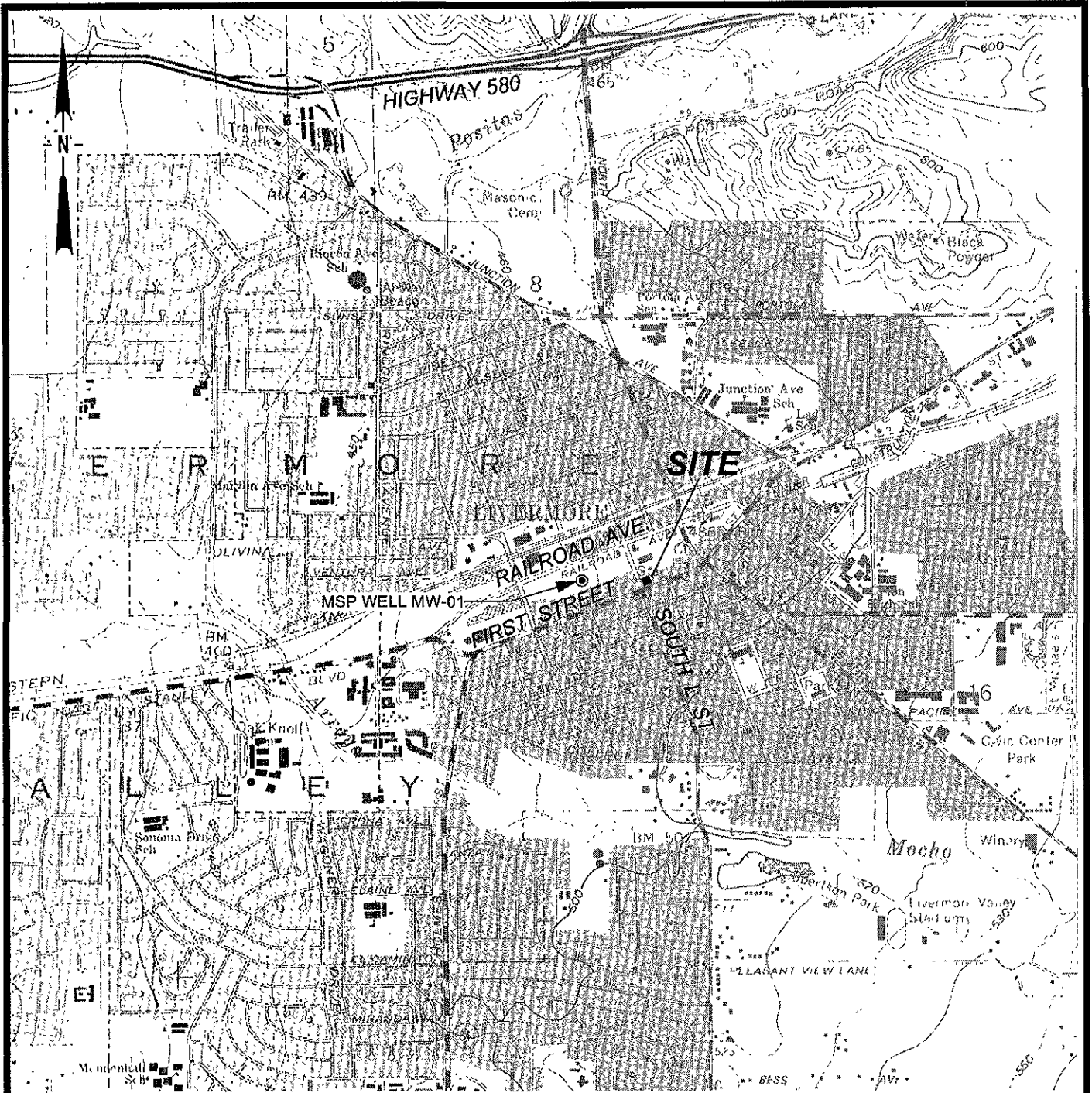
MS = Mill Springs Park

* Obstruction in well MW-6 at approximately 28.5 feet below top of casing

Table 3
 Third Quarter 2003 Groundwater Analytical Results
 B&C Gas Mini Mart
 Livermore, California

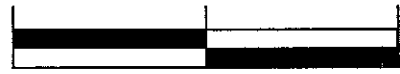
Well No.	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes (total)	Methyl tert-butyl ether	1,2-Dibromoethane	1,2-Dichloroethane	Di-isopropyl ether	Ethanol	Ethyl tert-butyl ether	tert-Amyl methyl ether	tert-Butyl alcohol
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	8/4/2003	2,700	150	32	97	450	43	<5	<5	<10	<1,000	<10	<10	<200
MW-2	8/4/2003	12,000	300	56	450	230	61	<12	<12	<25	<2,500	<25	<25	<500
MW-3	8/4/2003	530	7.0	<2.5	6.8	4.0	19	<2.5	<2.5	<5	<500	<5	<5	<100
MW-4	8/4/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20
MW-5	8/5/2003	17,000	1,200	100	930	500	980	<25	<25	<50	<5,000	<50	<50	<1,000
MW-6	8/4/2003*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	8/5/2003	330	2.9	<0.5	3.9	<0.5	11	<0.5	<0.5	<1	<100	<1	<1	<20
MW-8	8/5/2003	<50	<2.5	<2.5	<2.5	<2.5	23	<2.5	<2.5	<5	<500	<5	<5	<100
MW-9	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20
MW-10	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<1	<100	<1	<1	<20
MW-11	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20
MW-12	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20
MW-13	8/5/2003	240	8.4	<5	<5	<5	65	<5	<5	<10	<1,000	<10	<10	<200
D-1	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20
D-2	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20
(MS)MW-1	8/5/2003	1,900	25	<10	55	<10	<10	<10	<10	<20	<2,000	<20	<20	<400

Notes:
 µg/L = micrograms per liter
 TPH-G = total petroleum hydrocarbons as gasoline
 MS = Mill Springs Park Apartments
 NS = not sampled
 < = less than the laboratory reporting limit
 * Obstruction in well MW-6 at approximately 28.5 feet below top of casing
 ** The analytical results for the sample collected from well (MS)MW-1 in June 2003 may not be representative due to unusual post-sample handling procedures.



Base map: USGS 7.5' topography, Livermore, California (1961; photorevised 1980)

SCALE: 0 2,000 4,000 FEET



\\BNC\103\FIGURES\SITELOC.DSF 4/22/99

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GROUNDWATER MONITORING
 B & C GAS MINI MART
 LIVERMORE, CALIFORNIA

SITE LOCATION MAP

FIGURE
1
 PROJECT NO
 BNC103

MW-5
(Located 200' NW)

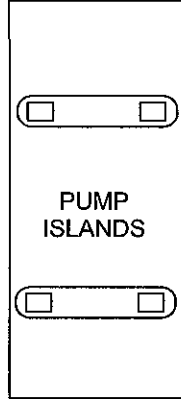
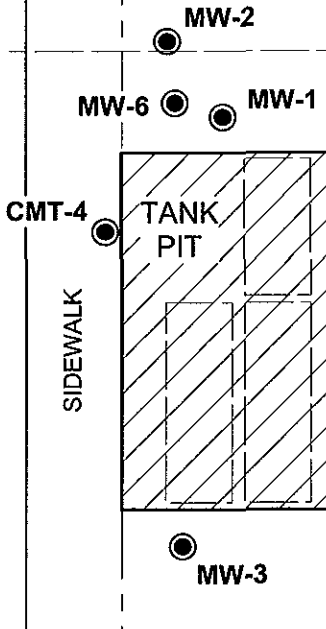


SOUTH L STREET

LIQUOR STORE

VALLEY GAS

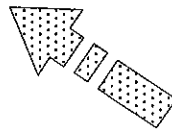
BUILDING



SIDEWALK

SITE BOUNDARY

FIRST STREET



APPROXIMATE
GROUNDWATER
FLOW
DIRECTION

EXPLANATION

MW-6 ● Groundwater monitoring well

SCALE: 0 25 50 FEET



(APPROXIMATE - NOT SURVEYED)

Conor Pacific



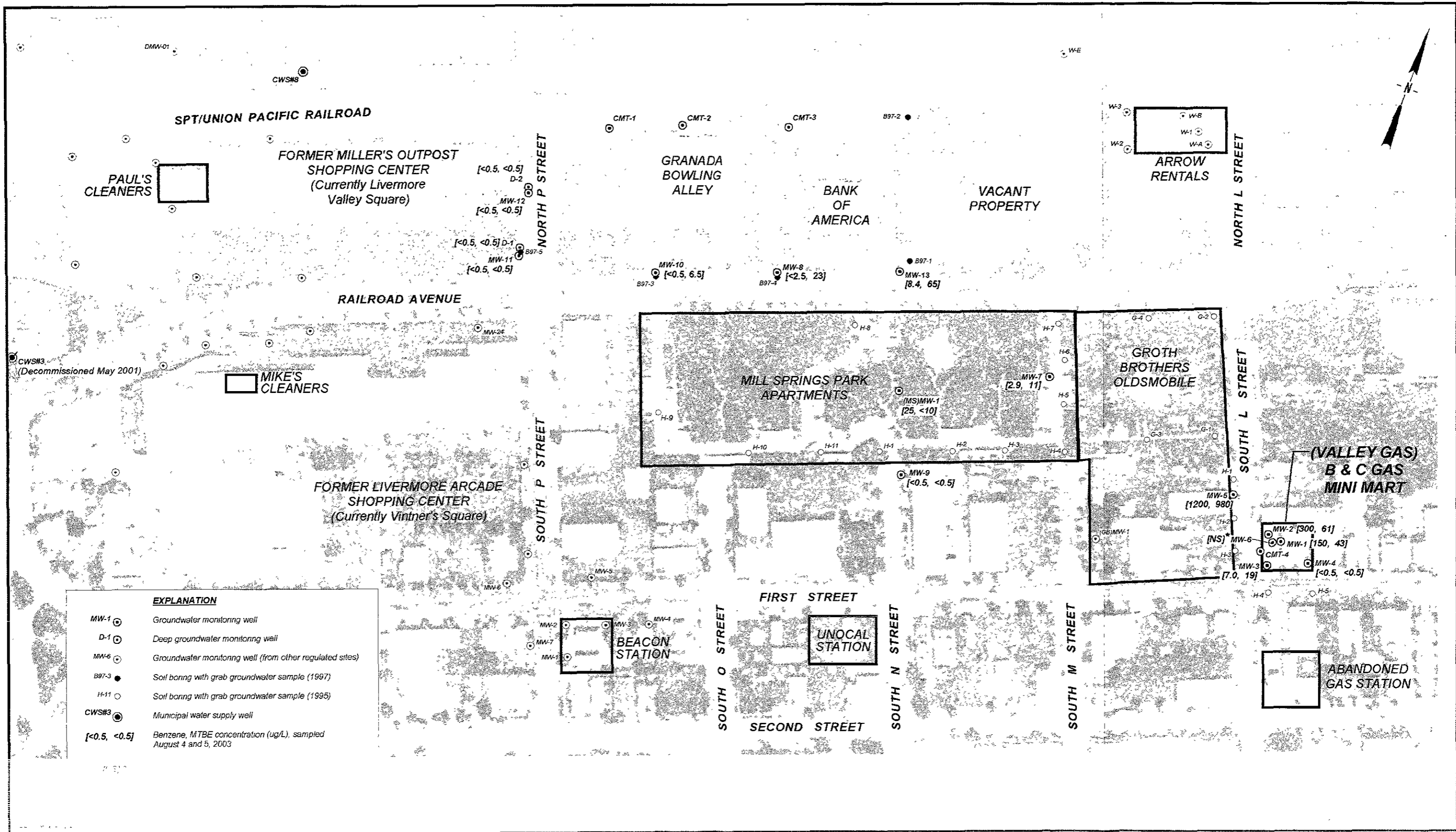
GROUNDWATER MONITORING
B & C GAS MINI MART
LIVERMORE, CALIFORNIA

SITE PLAN

FIGURE

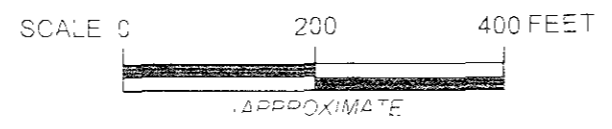
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PROJECT NO.
BNC103



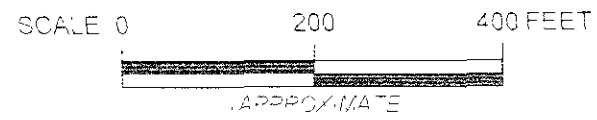
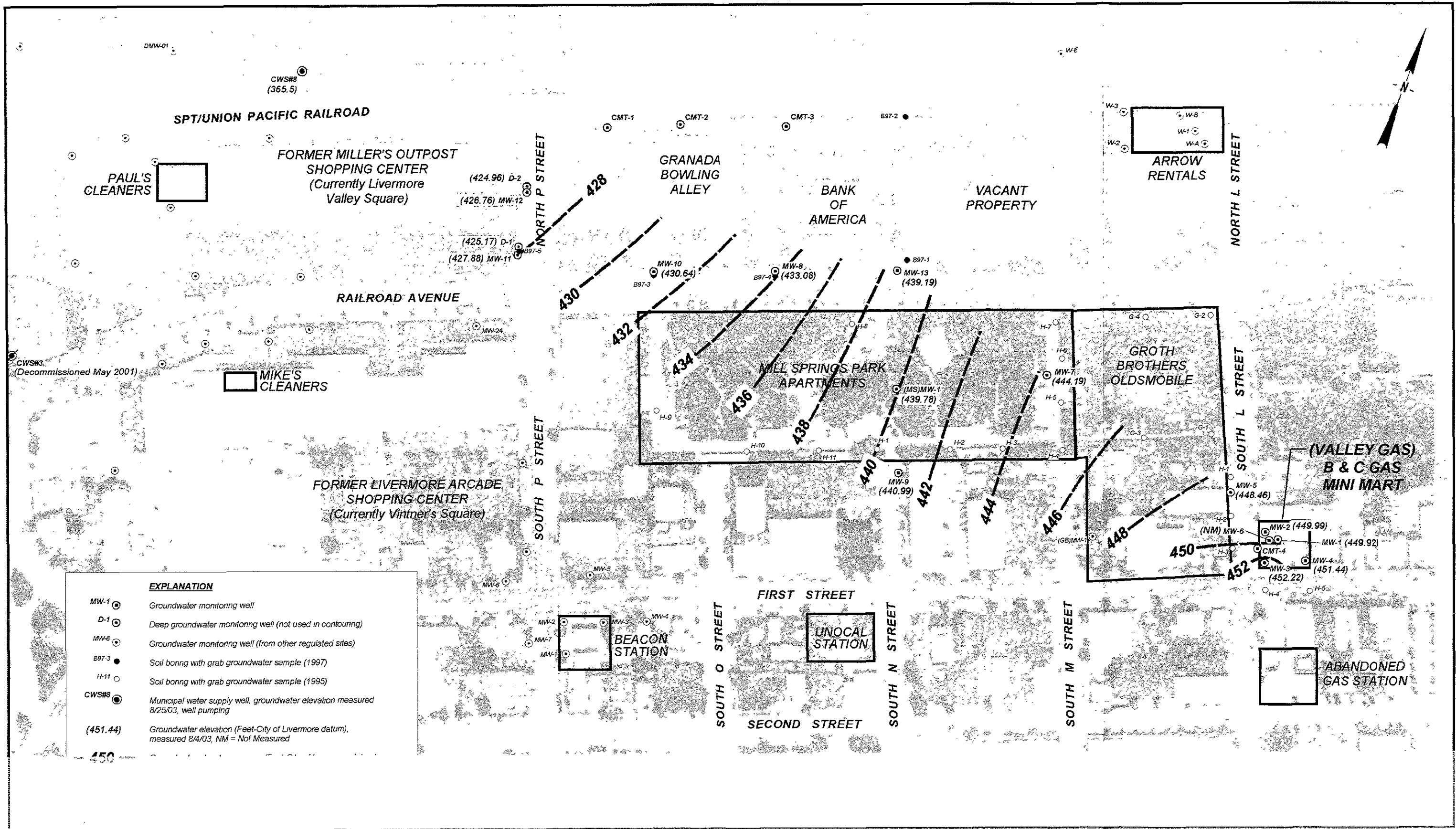
EXPLANATION

MW-1	Groundwater monitoring well
D-1	Deep groundwater monitoring well
MW-6	Groundwater monitoring well (from other regulated sites)
B97-3	Soil boring with grab groundwater sample (1997)
H-11	Soil boring with grab groundwater sample (1995)
CWS#3	Municipal water supply well
[<math><0.5, <0.5</math>]	Benzene, MTBE concentration (ug/L), sampled August 4 and 5, 2003



GROUNDWATER MONITORING
 B & C GAS MINI MART
 LIVERMORE CALIFORNIA
 GROUNDWATER CHEMISTRY (AUGUST 2003)

FIGURE
4
 PROJECT NO.
 ENC104



GROUNDWATER MONITORING
B & C GAS MINI MART
LIVERMORE CALIFORNIA

WELL LOCATIONS AND GROUNDWATER CONTOURS (AUGUST 2003)

APPENDIX A

Water Sample Field Data Sheets

WATER LEVEL DATA SHEET

Conor Pacific

Project: B&C Gas Mini Mart

Project No.: BNC103

Date(s): 8/4/03

Name: C. Minin

Weather: SUNNY WARM

Sounder #: SLOPE, LEAK

Well	Date	Time	DTPP (TOC)	DTW (TOC)	Total Depth	Meas. By	Comments
MW-1	8/4/03	1047	NM	34.15	75.0	CM	
MW-2		1114	NM	33.87	55.9		
MW-3		1055	NM	32.02	57.7		
MW-4		1101	NM	33.60	52.9cm		TD: 59.9'
MW-5		1129	NM	33.51	59.6		
MW-6		—	NM	NM	NM		RESTRICTED AT 28.6'
MW-7		1236	NM	33.95	49.2		
MW-8		1220	NM	40.15	53.2		
MW-9		1036	NM	36.09	44.1		
MW-10		1215	NM	40.78	53.8		
MW-11		1114	NM	37.05	48.7		
MW-12		1156	NM	31.58	43.2		
MW-13		1226	NM	35.60	54.3		
D-1		1149	NM	39.53	124.0		
D-2		1201	NM	32.65	111.1		
MS MW01		1245	NM	38.01	61.1		



LOCATION: B-N-C GAS MINI MART SAMPLE ID: MW-3
 PROJECT NO: BNCL03 SAMPLED BY: C. Min
 CLIENT: B-N-C GAS MINI MART REGULATORY AGENCY: ACEHS
 SAMPLE TYPE: Groundwater Surface Water Leachate Treatment System Other
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): <u>57.7</u>	Volume in Casing (gal): <u>17.0</u>
Depth to Water (ft): <u>32.02</u>	Calculated Purge (volumes / gal.): <u>17.0</u>
Height of Water Column (ft): <u>25.68</u>	Actual Pre-Sampling Purge (gal): <u>17.0</u>

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: DROWNED
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1606</u>	<u>6.0</u>	<u>21.6</u>	<u>1020</u>	<u>7.17</u>	<u>LT. BROWN</u>	<u>LOW</u>		
<u>1612</u>	<u>12.0</u>	<u>20.6</u>	<u>1040</u>	<u>7.18</u>	<u>↓</u>	<u>MODERATE</u>		
<u>1618</u>	<u>17.0</u>	<u>20.5</u>	<u>1040</u>	<u>7.19</u>	<u>↓</u>	<u>↓</u>		

Purge Date: 8/4/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer SS
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1625</u>	<u>21.2</u>	<u>1040</u>	<u>7.24</u>	<u>2.07</u>	<u>LT. BROWN</u>	<u>111</u>	<u>PARTICULATES</u>
Sheen: <u>NONE</u>		Odor: <u>SLIGHT</u>		Sample Date: <u>8/4/03</u>			

Field Measurement Devices: Horiba MY Omega QuickCheck D.O. Test Kit

REMARKS: 1 CASING VOLUME PURGE

SIGNATURE: Chuck Min DATE: 8/4/03



LOCATION: B-N-C GAS MINI MART SAMPLE ID: MW-4
 PROJECT NO: BNC103 SAMPLED BY: C. Mein
 CLIENT: B-N-C GAS MINI MART REGULATORY AGENCY: ACEHS
 SAMPLE TYPE: Groundwater Surface Water Leachate Treatment System Other
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): <u>59.9</u>	Volume in Casing (gal): <u>17.4</u>
Depth to Water (ft): <u>33.60</u>	Calculated Purge (volumes / gal.): <u>17.4</u>
Height of Water Column (ft): <u>26.30</u>	Actual Pre-Sampling Purge (gal): <u>17.5</u>

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: DRUMMED
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1651</u>	<u>6.0</u>	<u>21.7</u>	<u>1050</u>	<u>7.28</u>	<u>LT. BROWN</u>	<u>LOW</u>		
<u>1657</u>	<u>12.0</u>	<u>20.8</u>	<u>1060</u>	<u>7.25</u>	<u>↓</u>	<u>↓</u>		
<u>1705</u>	<u>17.5</u>	<u>20.5</u>	<u>1060</u>	<u>7.27</u>	<u>↓</u>	<u>MODERATE</u>		

Purge Date: 8/4/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer 57'
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1708</u>	<u>21.3</u>	<u>1060</u>	<u>7.28</u>	<u>4.88</u>	<u>LT. BROWN</u>	<u>206</u>	

Sheen: NONE Odor: SLIGHT Sample Date: 8/4/03

Field Measurement Devices: Horiba H4 Omega QuickCheck D.O. Test Kit

REMARKS: 1 CASING VOLUME PURGE.

SIGNATURE: Chuck Mein DATE: 8/4/03



LOCATION: B-N GAS MINI MART

SAMPLE ID: MW-5

PROJECT NO: BNC103

SAMPLED BY: C. Min

CLIENT: B-N GAS MINI MART

REGULATORY AGENCY: ACENS

SAMPLE TYPE: Groundwater Surface Water Leachate Treatment System Other

CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other

GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft):	<u>39.6</u>	Volume in Casing (gal):	<u>3.96</u>
Depth to Water (ft):	<u>33.60</u>	Calculated Purge (volumes / gal.):	<u>3.96</u>
Height of Water Column (ft):	<u>6.00</u>	Actual Pre-Sampling Purge (gal):	<u>4.0</u>

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer

PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump

Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Purge Water Containment: DO NOT MIX

Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1001</u>	<u>1.5</u>	<u>21.3</u>	<u>1080</u>	<u>6.87</u>	<u>LT. BROWN / LT. GREY</u>	<u>MODERATE</u>	<u>ST. BROWN ODOR</u>	<u>LIGHT GREEN</u>
<u>1007</u>	<u>3.0</u>	<u>21.0</u>	<u>1111</u>	<u>6.91</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>1010</u>	<u>4.0</u>	<u>20.8</u>	<u>1080</u>	<u>6.92</u>	<u>↓</u>	<u>HIGH</u>	<u>↓</u>	<u>↓</u>

Purge Date: 8/5/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer

PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump

Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1015</u>	<u>21.2</u>	<u>1120</u>	<u>6.99</u>	<u>1.47</u>	<u>LT. BROWN / LT. GREY</u>	<u>140</u>	

Sheen: VERY LIGHT GREEN Odor: STRONG ODOR Sample Date: 8/5/03

Field Measurement Devices: Horiba H4 Omega QuickCheck D.O. Test Kit

REMARKS: 1 CASING VOLUME RENE.

CALIBRATION @ 8/5/03 AT 942.00; AVO; PH: 7.01, 10.03; TEMP: 22°C; COND: 0, 2060; TURB: 0;

SIGNATURE: Cheryl Min DATE: 8/5/03



LOCATION: B-N-C GAS MINI MART
PROJECT NO: BNC103
CLIENT: B-N-C GAS MINI MART
SAMPLE TYPE: Groundwater _____ Surface Water _____
CASING DIAMETER (OD-inches): 3/4 _____ 1 _____ 2 _____ 4 _____ 4.5 _____ 6 _____ 8 _____ Other _____
GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

SAMPLE ID: MW-6
SAMPLED BY: C. min
REGULATORY AGENCY: ACEHS
Leachate _____ Treatment System _____ Other _____

Well Total Depth (ft): _____ Volume in Casing (gal): _____
Depth to Water (ft): _____ Calculated Purge (volumes / gal.): _____
Height of Water Column (ft): _____ Actual Pre-Sampling Purge (gal): _____

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer _____
PVC Hand Pump _____ Peristaltic Pump _____ Centrifugal Pump _____ Bladder Pump _____
Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____
Purge Water Containment: _____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB- _____ FB- _____ Other _____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Purge Date: _____

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer _____
PVC Hand Pump _____ Peristaltic Pump _____ Centrifugal Pump _____ Bladder Pump _____
Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
_____	_____	_____	_____	_____	_____	_____	_____

Sheen: _____ Odor: _____ Sample Date: _____

Field Measurement Devices: Horiba _____ Omega _____ QuickCheck _____ D.O. Test Kit _____

REMARKS: OBSTRUCTION AT 28.6' MW-6 NOT SAMPLED

SIGNATURE: check min DATE: 8/4/03



LOCATION: B-N-C GAS MINI MART

SAMPLE ID: MW-7

PROJECT NO: BNC 103

SAMPLED BY: C. Mini

CLIENT: B-N-C GAS MINI MART

REGULATORY AGENCY: ACEHS

SAMPLE TYPE: Groundwater Surface Water _____ Leachate _____ Treatment System _____ Other _____

CASING DIAMETER (OD-inches): 3/4 _____ 1 _____ 2 4 _____ 4.5 _____ 6 _____ 8 _____ Other _____

GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): <u>49.2</u>	Volume in Casing (gal): <u>2.59</u>
Depth to Water (ft): <u>34.01</u>	Calculated Purge (volumes / gal.): <u>2.59</u>
Height of Water Column (ft): <u>15.19</u>	Actual Pre-Sampling Purge (gal): <u>3.0</u>

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer

PVC Hand Pump _____ Peristaltic Pump _____ Centrifugal Pump _____ Bladder Pump _____

Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____

Purge Water Containment: DRUMMED

Field QC Samples Collected at this Well (Equipment or Field Blank): EB- _____ FB- _____ Other _____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other (SMELL OR TASTE)	Observation
<u>1118</u>	<u>1.0</u>	<u>21.2</u>	<u>940</u>	<u>7.22</u>	<u>LT. BROWN</u>	<u>MATERIAL</u>	<u>SMELL OR TASTE</u>	<u>PARTICULATES</u>
<u>1121</u>	<u>2.0</u>	<u>21.1</u>	<u>960</u>	<u>7.21</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>1125</u>	<u>3.0</u>	<u>20.7</u>	<u>950</u>	<u>7.20</u>	<u>↓</u>	<u>↓</u>	<u>NONE</u>	<u>↓</u>

Purge Date: 8/5/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer 46

PVC Hand Pump _____ Peristaltic Pump _____ Centrifugal Pump _____ Bladder Pump _____

Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1129</u>	<u>21.6</u>	<u>960</u>	<u>7.21</u>	<u>1.51</u>	<u>LT. BROWN</u>	<u>193</u>	

Sheen: NONE Odor: SMELL OR TASTE Sample Date: 8/5/03

Field Measurement Devices: Horiba HY Omega _____ QuickCheck _____ D.O. Test Kit _____

REMARKS: 1 CASING VOLUME PURGE

SIGNATURE: Chuck Mini DATE: 8/5/03



LOCATION: B-N-C GAS MINI MART
 PROJECT NO: BNC103
 CLIENT: B-N-C GAS MINI MART
 SAMPLE TYPE: Groundwater Surface Water
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

SAMPLE ID: MW-8
 SAMPLED BY: C. Min
 REGULATORY AGENCY: ACEHS
 Leachate Treatment System Other

Well Total Depth (ft): 53.2 Volume in Casing (gal): 2.20
 Depth to Water (ft): 40.31 Calculated Purge (volumes / gal.): 2.20
 Height of Water Column (ft): 12.89 Actual Pre-Sampling Purge (gal): 2.25

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: DRUMMED
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
1612	0.75	21.2	1020	7.07	LT. BROWN	MODERATE		
1614	1.50	21.3	1010	7.02	↓	↓		
1618	2.25	20.4	1020	7.03	↓	↓		

Purge Date: 8/5/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer 50'
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1623	21.9	1010	7.03	1.17	LT. BROWN	278	

Sheen: NONE Odor: NONE Sample Date: 8/5/03

Field Measurement Devices: Horiba HH Omega QuickCheck D.O. Test Kit

REMARKS: 1 CASING VOLUME PURGE.

SIGNATURE: Chuck Min DATE: 8/5/03



LOCATION: B-N-C GAS MINI MART

SAMPLE ID: MWS-9

PROJECT NO: BNC103

SAMPLED BY: C. Mein

CLIENT: B-N-C GAS MINI MART

REGULATORY AGENCY: ACEHS

SAMPLE TYPE: Groundwater Surface Water Leachate Treatment System Other

CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other

GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft):	<u>44.1</u>	Volume in Casing (gal):	<u>1.36</u>
Depth to Water (ft):	<u>36.11</u>	Calculated Purge (volumes / gal.):	<u>1.36</u>
Height of Water Column (ft):	<u>7.99</u>	Actual Pre-Sampling Purge (gal):	<u>1.5</u>

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer

PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump

Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Purge Water Containment: Drummed

Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1049</u>	<u>0.5</u>	<u>20.5</u>	<u>900</u>	<u>7.20</u>	<u>LT. BROWN</u>	<u>MODERATE</u>		
<u>1051</u>	<u>1.0</u>	<u>20.2</u>	<u>940</u>	<u>7.20</u>	<u>↓</u>	<u>↓</u>		
<u>1053</u>	<u>1.5</u>	<u>20.1</u>	<u>950</u>	<u>7.20</u>	<u>↓</u>	<u>↓</u>		

Purge Date: 8/5/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer

PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump

Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1055</u>	<u>21.0</u>	<u>910</u>	<u>7.22</u>	<u>3.05</u>	<u>LT. BROWN</u>	<u>7999</u>	

Sheen: NONE Odor: NONE Sample Date: 8/5/03

Field Measurement Devices: Horiba M4 Omega QuickCheck D.O. Test Kit

REMARKS: 1 CASING VOLUME PURGE.

SIGNATURE: Chuck Mein DATE: 8/5/03



LOCATION: B-N-C GAS MINI MART SAMPLE ID: MW-10
 PROJECT NO: BNC103 SAMPLED BY: C. Min
 CLIENT: B-N-C GAS MINI MART REGULATORY AGENCY: ACEHS
 SAMPLE TYPE: Groundwater Surface Water Leachate Treatment System Other
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 53.8 Volume in Casing (gal): 2.19
 Depth to Water (ft): 40.93 Calculated Purge (volumes / gal.): 2.19
 Height of Water Column (ft): 12.87 Actual Pre-Sampling Purge (gal): 2.25

PURGE:
 Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: Drummed
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
1542	0.75	20.5	950	7.19	LT. BROWN	MODERATE		
1546	1.50	20.4	940	7.12	↓	HIGH		
1548	2.25	20.1	940	7.09	↓	↓		

Purge Date: 8/5/03

SAMPLE:
 Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer SI
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1553	20.5	980	7.09	1.58	LT. BROWN	7999	SI
Sheen:	<u>NONE</u>	Odor:	<u>NONE</u>	Sample Date:	<u>8/5/03</u>		

Field Measurement Devices: Horiba M4 Omega QuickCheck D.O. Test Kit
 REMARKS: 1 CASING VOLUME PURGE

SIGNATURE: Cheryl Min DATE: 8/5/03



LOCATION: B-N-C WAS MINI MART
 PROJECT NO: BNC103
 CLIENT: B-N-C WAS MINI MART
 SAMPLE TYPE: Groundwater Surface Water
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

SAMPLE ID: mw-11
 SAMPLED BY: C. min
 REGULATORY AGENCY: ACEHS
 Leachate Treatment System Other

Well Total Depth (ft):	<u>48.7</u>	Volume in Casing (gal):	<u>1.99</u>
Depth to Water (ft):	<u>37.00</u>	Calculated Purge (volumes / gal.):	<u>1.99</u>
Height of Water Column (ft):	<u>11.70</u>	Actual Pre-Sampling Purge (gal):	<u>2.00</u>

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: DRUMMED
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1505</u>	<u>0.75</u>	<u>21.2</u>	<u>960</u>	<u>7.23</u>	<u>BROWN</u>	<u>MODERATE</u>		
<u>1507</u>	<u>1.50</u>	<u>21.5</u>	<u>980</u>	<u>7.14</u>	<u>↓</u>	<u>↓</u>		
<u>1509</u>	<u>2.00</u>	<u>21.1</u>	<u>1030</u>	<u>7.13</u>	<u>BROWN / LT. GREEN</u>	<u>HIGH</u>		

Purge Date: 8/5/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer 46'
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1513</u>	<u>22.2</u>	<u>1020</u>	<u>7.11</u>	<u>2.91</u>	<u>BROWN</u>	<u>>999</u>	

Sheen: NONE Odor: NONE Sample Date: 8/5/03

Field Measurement Devices: Horiba H4 Omega QuickCheck D.O. Test Kit

REMARKS: 1 CASING VOLUME PURGE.

SIGNATURE: Chuan Min

DATE: 8/5/03



LOCATION: B-N-C GAS MINI MART SAMPLE ID: MW-17
 PROJECT NO: BNC103 SAMPLED BY: C. Min
 CLIENT: B-N-C GAS MINI MART REGULATORY AGENCY: ACEHS
 SAMPLE TYPE: Groundwater Surface Water Leachate Treatment System Other
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 43.2 Volume in Casing (gal): 1.97
 Depth to Water (ft): 31.63 Calculated Purge (volumes / gal.): 1.97
 Height of Water Column (ft): 11.57 Actual Pre-Sampling Purge (gal): 2.0

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: DROWNED
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1352</u>	<u>1.0</u>	<u>21.4</u>	<u>960</u>	<u>7.08</u>	<u>LT. BROWN</u>	<u>MODERATE</u>		
<u>1355</u>	<u>2.5 cm</u>	<u>21.0</u>	<u>970</u>	<u>7.05</u>	<u>↓</u>	<u>↓</u>		
<u>1357</u>	<u>2.0</u>	<u>20.7</u>	<u>960</u>	<u>7.06</u>	<u>↓</u>	<u>HIGH</u>		

Purge Date: 8/5/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer 40'
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1402</u>	<u>21.6</u>	<u>990</u>	<u>7.02</u>	<u>4.23</u>	<u>LT. BROWN</u>	<u>433</u>	

Sheen: NONE Odor: NONE Sample Date: 8/5/03

Field Measurement Devices: Horiba HY Omega QuickCheck D.O. Test Kit

REMARKS: 1 CASING NOW WE PURGE.

SIGNATURE: Chun Min DATE: 8/5/03



LOCATION: B-N-C GAS MINI MART

SAMPLE ID: MW-13

PROJECT NO: BNC103

SAMPLED BY: C. mini

CLIENT: B-N-C GAS MINI MART

REGULATORY AGENCY: ACEHS

SAMPLE TYPE: Groundwater X Surface Water _____ Leachate _____ Treatment System _____ Other _____

CASING DIAMETER (OD-inches): 3/4 _____ 1 _____ 2 X 4 _____ 4.5 _____ 6 _____ 8 _____ Other _____

GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): <u>54.3</u>	Volume in Casing (gal): <u>3.18</u>
Depth to Water (ft): <u>35.63</u>	Calculated Purge (volumes / gal.): <u>3.18</u>
Height of Water Column (ft): <u>18.67</u>	Actual Pre-Sampling Purge (gal): <u>3.25</u>

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer X

PVC Hand Pump _____ Peristaltic Pump _____ Centrifugal Pump _____ Bladder Pump _____

Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____

Purge Water Containment: DECONTAMINATED

Field QC Samples Collected at this Well (Equipment or Field Blank): EB- _____ FB- _____ Other _____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1643</u>	<u>1.25</u>	<u>21.1</u>	<u>1030</u>	<u>7.07</u>	<u>LT. BROWN</u>	<u>MODERATE</u>		<u>PARTICULATES</u>
<u>1646</u>	<u>2.50</u>	<u>20.8</u>	<u>990</u>	<u>7.06</u>	<u>↓</u>	<u>↓</u>		<u>↓</u>
<u>1649</u>	<u>3.25</u>	<u>20.7</u>	<u>1030</u>	<u>7.07</u>	<u>↓</u>	<u>↓</u>		<u>↓</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Purge Date: 8/5/03

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer 51'

PVC Hand Pump _____ Peristaltic Pump _____ Centrifugal Pump _____ Bladder Pump _____

Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1655</u>	<u>21.3</u>	<u>1030</u>	<u>7.08</u>	<u>1.45</u>	<u>LT. BROWN</u>	<u>309</u>	<u>PARTICULATE</u>
Sheen: <u>NONE</u>	Odor: <u>SLIGHT</u>	Sample Date: <u>8/5/03</u>	_____	_____	_____	_____	_____

Field Measurement Devices: Horiba H4 Omega _____ QuickCheck _____ D.O. Test Kit _____

REMARKS: 1 CASING VOLUME PURGE

SIGNATURE: Chermini DATE: 8/5/03

APPENDIX B

Laboratory Certified Analytical Reports

BNC103 gw
Aug 03



**Sequoia
Analytical**

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Petaluma, CA 94954
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21 August, 2003

Katrin Schliewen
Conor Pacific / EFW
2580 Wyandotte St., Suite G
Mountain View, CA 94043

RE: B&C Gas Mini Mart
Work Order: P308145

Enclosed are the results of analyses for samples received by the laboratory on 08/07/03 12:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stacy P. Hoch For Peggy Penner
Lab Manager

CA ELAP Certificate #2374



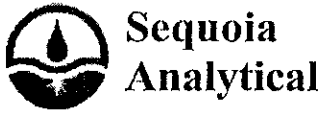
Conor Pacific / EFW
2580 Wyandotte St., Suite G
Mountain View CA, 94043

Project: B&C Gas Mini Mart
Project Number: BNC103
Project Manager: Katrin Schliewen

P308145
Reported:
08/21/03 18:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	P308145-01	Water	08/04/03 15:35	08/07/03 12:40
MW-2	P308145-02	Water	08/04/03 14:39	08/07/03 12:40
MW-3	P308145-03	Water	08/04/03 16:25	08/07/03 12:40
MW-4	P308145-04	Water	08/04/03 17:08	08/07/03 12:40
MW-5	P308145-05	Water	08/05/03 10:15	08/07/03 12:40
MW-7	P308145-06	Water	08/05/03 11:29	08/07/03 12:40
MW-8	P308145-07	Water	08/05/03 16:23	08/07/03 12:40
MW-9	P308145-08	Water	08/05/03 10:55	08/07/03 12:40
MW-10	P308145-09	Water	08/05/03 15:53	08/07/03 12:40
MW-11	P308145-10	Water	08/05/03 15:13	08/07/03 12:40
MW-12	P308145-11	Water	08/05/03 14:02	08/07/03 12:40
MW-13	P308145-12	Water	08/05/03 16:55	08/07/03 12:40
D-1	P308145-13	Water	08/05/03 14:52	08/07/03 12:40
D-2	P308145-14	Water	08/05/03 13:38	08/07/03 12:40
MSMW01	P308145-15	Water	08/05/03 12:07	08/07/03 12:40



Conor Pacific / EFW
 2580 Wyandotte St., Suite G
 Mountain View CA, 94043

Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P308145
 Reported:
 08/21/03 18:38

Total Petroleum Hydrocarbons as Gasoline by EPA 8015B
Sequoia Analytical - Petaluma

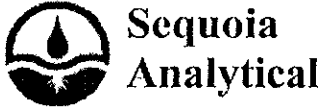
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (P308145-01) Water Sampled: 08/04/03 15:35 Received: 08/07/03 12:40									
Gasoline Range Organics	2700	1000	ug/l	20	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	65-135		"	"	"	"	
MW-2 (P308145-02) Water Sampled: 08/04/03 14:39 Received: 08/07/03 12:40									
Gasoline Range Organics	12000	250	ug/l	5	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		91 %	65-135		"	"	"	"	
MW-3 (P308145-03) Water Sampled: 08/04/03 16:25 Received: 08/07/03 12:40									
Gasoline Range Organics	530	500	ug/l	10	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	65-135		"	"	"	"	
MW-4 (P308145-04) Water Sampled: 08/04/03 17:08 Received: 08/07/03 12:40									
Gasoline Range Organics	ND	50	ug/l	1	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		84 %	65-135		"	"	"	"	
MW-5 (P308145-05) Water Sampled: 08/05/03 10:15 Received: 08/07/03 12:40									
Gasoline Range Organics	17000	1000	ug/l	20	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	65-135		"	"	"	"	
MW-7 (P308145-06) Water Sampled: 08/05/03 11:29 Received: 08/07/03 12:40									
Gasoline Range Organics	330	50	ug/l	1	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		89 %	65-135		"	"	"	"	
MW-8 (P308145-07) Water Sampled: 08/05/03 16:23 Received: 08/07/03 12:40									
Gasoline Range Organics	ND	50	ug/l	1	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		86 %	65-135		"	"	"	"	



Conor Pacific / EFW 2580 Wyandotte St., Suite G Mountain View CA, 94043	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	P308145 Reported: 08/21/03 18:38
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Total Petroleum Hydrocarbons as Gasoline by EPA 8015B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (P308145-08) Water Sampled: 08/05/03 10:55 Received: 08/07/03 12:40									
Gasoline Range Organics	ND	50	ug/l	1	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		87 %	65-135		"	"	"	"	
MW-10 (P308145-09) Water Sampled: 08/05/03 15:53 Received: 08/07/03 12:40									
Gasoline Range Organics	ND	50	ug/l	1	3080263	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		85 %	65-135		"	"	"	"	
MW-11 (P308145-10) Water Sampled: 08/05/03 15:13 Received: 08/07/03 12:40									
Gasoline Range Organics	ND	50	ug/l	1	3080265	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		91 %	65-135		"	"	"	"	
MW-12 (P308145-11) Water Sampled: 08/05/03 14:02 Received: 08/07/03 12:40									
Gasoline Range Organics	ND	50	ug/l	1	3080265	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	65-135		"	"	"	"	
MW-13 (P308145-12) Water Sampled: 08/05/03 16:55 Received: 08/07/03 12:40									
Gasoline Range Organics	240	50	ug/l	1	3080265	08/14/03	08/14/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	65-135		"	"	"	"	
D-1 (P308145-13) Water Sampled: 08/05/03 14:52 Received: 08/07/03 12:40									
Gasoline Range Organics	ND	50	ug/l	1	3080287	08/15/03	08/15/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	65-135		"	"	"	"	
D-2 (P308145-14) Water Sampled: 08/05/03 13:38 Received: 08/07/03 12:40									
Gasoline Range Organics	ND	50	ug/l	1	3080287	08/15/03	08/15/03	EPA 8015B-VOA	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	65-135		"	"	"	"	



**Sequoia
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Conor Pacific / EFW
2580 Wyandotte St., Suite G
Mountain View CA, 94043

Project: B&C Gas Mini Mart
Project Number: BNC103
Project Manager: Katrin Schliewen

P308145
Reported:
08/21/03 18:38

Total Petroleum Hydrocarbons as Gasoline by EPA 8015B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MSMW01 (P308145-15) Water Sampled: 08/05/03 12:07 Received: 08/07/03 12:40									
Gasoline Range Organics	1900	100	ug/l	2	3080287	08/15/03	08/15/03	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		91 %	65-135		"	"	"	"	

Conor Pacific / EFW
 2580 Wyandotte St., Suite G
 Mountain View CA, 94043

 Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

 P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (P308145-01) Water Sampled: 08/04/03 15:35 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	10	ug/l	10	3080212	08/12/03	08/12/03	EPA 8260B	
Benzene	150	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	200	"	"	"	"	"	"	A-01
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	A-01
Ethylbenzene	97	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	43	5.0	"	"	"	"	"	"	
Toluene	32	5.0	"	"	"	"	"	"	
Xylenes (total)	450	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97 %		84-122	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91 %		74-135	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %		84-119	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		86-119	"	"	"	"	
MW-2 (P308145-02) Water Sampled: 08/04/03 14:39 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	25	ug/l	25	3080212	08/12/03	08/12/03	EPA 8260B	
Benzene	300	12	"	"	"	"	"	"	
Tert-butyl alcohol	ND	500	"	"	"	"	"	"	A-01
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	12	"	"	"	"	"	"	
1,2-Dichloroethane	ND	12	"	"	"	"	"	"	
Ethanol	ND	2500	"	"	"	"	"	"	A-01
Ethylbenzene	450	12	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	61	12	"	"	"	"	"	"	
Toluene	56	12	"	"	"	"	"	"	
Xylenes (total)	230	12	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %		84-122	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95 %		74-135	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %		84-119	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %		86-119	"	"	"	"	



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Conor Pacific / EFW
 2580 Wyandotte St., Suite G
 Mountain View CA, 94043

Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (P308145-03) Water **Sampled: 08/04/03 16:25** **Received: 08/07/03 12:40** **R-05**

Tert-amyl methyl ether	ND	5.0	ug/l	5	3080212	08/12/03	08/12/03	EPA 8260B	
Benzene	7.0	2.5	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethylbenzene	6.8	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	19	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	4.0	2.5	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		<i>97 %</i>		<i>84-122</i>	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>95 %</i>		<i>74-135</i>	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>99 %</i>		<i>84-119</i>	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>		<i>86-119</i>	"	"	"	"	

MW-4 (P308145-04) Water **Sampled: 08/04/03 17:08** **Received: 08/07/03 12:40**

Tert-amyl methyl ether	ND	1.0	ug/l	1	3080168	08/09/03	08/10/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		<i>102 %</i>		<i>84-122</i>	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>101 %</i>		<i>74-135</i>	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>105 %</i>		<i>84-119</i>	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>92 %</i>		<i>86-119</i>	"	"	"	"	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



Conor Pacific / EFW
 2580 Wyandotte St., Suite G
 Mountain View CA, 94043

Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schlicwen

P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (P308145-05) Water Sampled: 08/05/03 10:15 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	50	ug/l	50	3080181	08/12/03	08/12/03	EPA 8260B	
Benzene	1200	25	"	"	"	"	"	"	
Tert-butyl alcohol	ND	1000	"	"	"	"	"	"	A-01
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	A-01
Ethylbenzene	930	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	980	25	"	"	"	"	"	"	
Toluene	100	25	"	"	"	"	"	"	
Xylenes (total)	500	25	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		90 %	84-122		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84 %	74-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92 %	84-119		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %	86-119		"	"	"	"	
MW-7 (P308145-06) Water Sampled: 08/05/03 11:29 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	1.0	ug/l	1	3080212	08/12/03	08/12/03	EPA 8260B	
Benzene	2.9	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethylbenzene	3.9	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	11	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99 %	84-122		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92 %	74-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	84-119		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	86-119		"	"	"	"	

Conor Pacific / EFW
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 Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

 P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (P308145-07) Water Sampled: 08/05/03 16:23 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	5.0	ug/l	5	3080181	08/11/03	08/11/03	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	23	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	84-122	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	74-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %	84-119	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	86-119	"	"	"	"	"	
MW-9 (P308145-08) Water Sampled: 08/05/03 10:55 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	1.0	ug/l	1	3080244	08/13/03	08/13/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	84-122	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	74-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %	84-119	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	86-119	"	"	"	"	"	



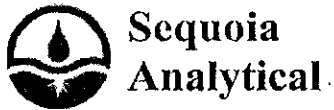
Conor Pacific / EFW
 2580 Wyandotte St., Suite G
 Mountain View CA, 94043

Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (P308145-09) Water Sampled: 08/05/03 15:53 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	1.0	ug/l	1	3080244	08/13/03	08/13/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	6.5	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %		84-122	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		74-135	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %		84-119	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %		86-119	"	"	"	"	
MW-11 (P308145-10) Water Sampled: 08/05/03 15:13 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	1.0	ug/l	1	3080212	08/12/03	08/12/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99 %		84-122	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %		74-135	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %		84-119	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		86-119	"	"	"	"	



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Conor Pacific / EFW 2580 Wyandotte St., Suite G Mountain View CA, 94043	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	P308145 Reported: 08/21/03 18:38
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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (P308145-11) Water Sampled: 08/05/03 14:02 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	1.0	ug/l	1	3080212	08/12/03	08/12/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	84-122	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98 %	74-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %	84-119	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	86-119	"	"	"	"	"	
MW-13 (P308145-12) Water Sampled: 08/05/03 16:55 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	10	ug/l	10	3080244	08/13/03	08/13/03	EPA 8260B	
Benzene	8.4	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	65	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		108 %	84-122	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	74-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	84-119	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	86-119	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Conor Pacific / EFW
 2580 Wyandotte St., Suite G
 Mountain View CA, 94043

Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
D-1 (P308145-13) Water Sampled: 08/05/03 14:52 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	1.0	ug/l	1	3080244	08/13/03	08/13/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	84-122		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	74-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	84-119		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	86-119		"	"	"	"	
D-2 (P308145-14) Water Sampled: 08/05/03 13:38 Received: 08/07/03 12:40									
Tert-amyl methyl ether	ND	1.0	ug/l	1	3080244	08/13/03	08/13/03	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		107 %	84-122		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	74-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	84-119		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	86-119		"	"	"	"	



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Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MSMW01 (P308145-15) Water Sampled: 08/05/03 12:07 Received: 08/07/03 12:40 R-05									
Tert-amyl methyl ether	ND	20	ug/l	20	3080244	08/13/03	08/13/03	EPA 8260B	
Benzene	25	10	"	"	"	"	"	"	
Tert-butyl alcohol	ND	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	2000	"	"	"	"	"	"	
Ethylbenzene	55	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		108 %		84-122	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %		74-135	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %		84-119	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %		86-119	"	"	"	"	



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Total Petroleum Hydrocarbons as Gasoline by EPA 8015B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080263 - EPA 5030, waters

Blank (3080263-BLK1) Prepared & Analyzed: 08/14/03

Gasoline Range Organics	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	278		"	300		93	65-135			

Laboratory Control Sample (3080263-BS1) Prepared & Analyzed: 08/14/03

Gasoline Range Organics	2280	50	ug/l	2750		83	65-135			
Surrogate: 4-Bromofluorobenzene	299		"	300		100	65-135			

Matrix Spike (3080263-MS1) Source: P308145-04 Prepared & Analyzed: 08/14/03

Gasoline Range Organics	2300	50	ug/l	2750	16	83	65-135			
Surrogate: 4-Bromofluorobenzene	299		"	300		100	65-135			

Matrix Spike Dup (3080263-MSD1) Source: P308145-04 Prepared & Analyzed: 08/14/03

Gasoline Range Organics	2260	50	ug/l	2750	16	82	65-135	2	20	
Surrogate: 4-Bromofluorobenzene	291		"	300		97	65-135			

Batch 3080265 - EPA 5030, waters

Blank (3080265-BLK1) Prepared & Analyzed: 08/14/03

Gasoline Range Organics	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	301		"	300		100	65-135			

Laboratory Control Sample (3080265-BS1) Prepared & Analyzed: 08/14/03

Gasoline Range Organics	2240	50	ug/l	2750		81	65-135			
Surrogate: 4-Bromofluorobenzene	306		"	300		102	65-135			

Matrix Spike (3080265-MS1) Source: P308122-01 Prepared & Analyzed: 08/14/03

Gasoline Range Organics	2260	50	ug/l	2750	38	81	65-135			
Surrogate: 4-Bromofluorobenzene	303		"	300		101	65-135			



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P308145
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 08/21/03 18:38

Total Petroleum Hydrocarbons as Gasoline by EPA 8015B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080265 - EPA 5030, waters										
Matrix Spike Dup (3080265-MSD1)		Source: P308122-01			Prepared & Analyzed: 08/14/03					
Gasoline Range Organics	2210	50	ug/l	2750	38	79	65-135	2	20	
Surrogate: 4-Bromofluorobenzene	309		"	300		103	65-135			
Batch 3080287 - EPA 5030, waters										
Blank (3080287-BLK1)					Prepared & Analyzed: 08/15/03					
Gasoline Range Organics	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	268		"	300		89	65-135			
Laboratory Control Sample (3080287-BS1)					Prepared & Analyzed: 08/15/03					
Gasoline Range Organics	2250	50	ug/l	2750		82	65-135			
Surrogate: 4-Bromofluorobenzene	304		"	300		101	65-135			
Matrix Spike (3080287-MS1)		Source: P308130-11			Prepared & Analyzed: 08/15/03					
Gasoline Range Organics	2240	50	ug/l	2750	ND	81	65-135			
Surrogate: 4-Bromofluorobenzene	306		"	300		102	65-135			
Matrix Spike Dup (3080287-MSD1)		Source: P308130-11			Prepared & Analyzed: 08/15/03					
Gasoline Range Organics	2240	50	ug/l	2750	ND	81	65-135	0	20	
Surrogate: 4-Bromofluorobenzene	302		"	300		101	65-135			



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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080168 - EPA 5030 waters

Blank (3080168-BLK1)

Prepared & Analyzed: 08/09/03

Tert-amyl methyl ether	ND	1.0	ug/l							
Benzene	ND	0.50	"							
Tert-butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethylbenzene	ND	0.50	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	4.83		"	4.50		107	84-122			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.82		"	4.50		107	74-135			
<i>Surrogate: Toluene-d8</i>	5.04		"	4.50		112	84-119			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.26		"	4.50		95	86-119			

Laboratory Control Sample (3080168-BS1)

Prepared & Analyzed: 08/09/03

Tert-amyl methyl ether	0.966	1.0	ug/l	1.00		97	70-116			
Benzene	0.994	0.50	"	1.00		99	81-118			
Tert-butyl alcohol	26.2	20	"	20.0		131	62-142			
Di-isopropyl ether	1.00	1.0	"	1.00		100	71-121			
1,2-Dibromoethane (EDB)	0.946	0.50	"	1.00		95	92-117			
1,2-Dichloroethane	0.939	0.50	"	1.00		94	79-126			
Ethyl tert-butyl ether	0.951	1.0	"	1.00		95	71-110			
Methyl tert-butyl ether	0.904	0.50	"	1.00		90	77-123			
Toluene	1.02	0.50	"	1.00		102	84-119			
<i>Surrogate: Dibromofluoromethane</i>	4.63		"	4.50		103	84-122			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.42		"	4.50		98	74-135			
<i>Surrogate: Toluene-d8</i>	5.03		"	4.50		112	84-119			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.40		"	4.50		98	86-119			



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 Project Manager: Katrin Schliewen

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080168 - EPA 5030 waters

Laboratory Control Sample Dup (3080168-BSD1)

Prepared & Analyzed: 08/09/03

Tert-amyl methyl ether	0.970	1.0	ug/l	1.00	97	70-116	0.4	20	
Benzene	0.940	0.50	"	1.00	94	81-118	6	20	
Tert-butyl alcohol	18.4	20	"	20.0	92	62-142	35	20	QR-02
Di-isopropyl ether	0.954	1.0	"	1.00	95	71-121	5	20	
1,2-Dibromoethane (EDB)	0.956	0.50	"	1.00	96	92-117	1	20	
1,2-Dichloroethane	0.952	0.50	"	1.00	95	79-126	1	20	
Ethyl tert-butyl ether	0.939	1.0	"	1.00	94	71-110	1	20	
Methyl tert-butyl ether	1.02	0.50	"	1.00	102	77-123	12	20	
Toluene	1.05	0.50	"	1.00	105	84-119	3	20	
Surrogate: Dibromofluoromethane	4.84		"	4.50	108	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.80		"	4.50	107	74-135			
Surrogate: Toluene-d8	5.04		"	4.50	112	84-119			
Surrogate: 4-Bromofluorobenzene	4.53		"	4.50	101	86-119			

Batch 3080181 - EPA 5030 waters

Blank (3080181-BLK1)

Prepared & Analyzed: 08/11/03

Tert-amyl methyl ether	ND	1.0	ug/l						
Benzene	ND	0.50	"						
Tert-butyl alcohol	ND	20	"						
Di-isopropyl ether	ND	1.0	"						
1,2-Dibromoethane (EDB)	ND	0.50	"						
1,2-Dichloroethane	ND	0.50	"						
Ethanol	ND	100	"						
Ethylbenzene	ND	0.50	"						
Ethyl tert-butyl ether	ND	1.0	"						
Methyl tert-butyl ether	ND	0.50	"						
Toluene	ND	0.50	"						
Xylenes (total)	ND	0.50	"						
Surrogate: Dibromofluoromethane	5.58		"	5.00	112	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.41		"	5.00	108	74-135			
Surrogate: Toluene-d8	5.21		"	5.00	104	84-119			
Surrogate: 4-Bromofluorobenzene	6.08		"	5.00	122	86-119			S-LIM



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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080181 - EPA 5030 waters

Blank (3080181-BLK2)

Prepared & Analyzed: 08/12/03

Tert-amyl methyl ether	ND	1.0	ug/l							
Benzene	ND	0.50	"							
Tert-butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethylbenzene	ND	0.50	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>5.09</i>		<i>"</i>	<i>5.00</i>		<i>102</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.73</i>		<i>"</i>	<i>5.00</i>		<i>95</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.15</i>		<i>"</i>	<i>5.00</i>		<i>103</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.52</i>		<i>"</i>	<i>5.00</i>		<i>110</i>	<i>86-119</i>			

Laboratory Control Sample (3080181-BS1)

Prepared & Analyzed: 08/11/03

Tert-amyl methyl ether	4.97	1.0	ug/l	5.00		99	70-116			
Benzene	5.01	0.50	"	5.00		100	81-118			
Tert-butyl alcohol	85.3	20	"	100		85	62-142			
Di-isopropyl ether	4.80	1.0	"	5.00		96	71-121			
1,2-Dibromoethane (EDB)	4.88	0.50	"	5.00		98	92-117			
1,2-Dichloroethane	4.78	0.50	"	5.00		96	79-126			
Ethyl tert-butyl ether	4.82	1.0	"	5.00		96	71-110			
Methyl tert-butyl ether	4.82	0.50	"	5.00		96	77-123			
Toluene	5.09	0.50	"	5.00		102	84-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>5.06</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.77</i>		<i>"</i>	<i>5.00</i>		<i>95</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.03</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.16</i>		<i>"</i>	<i>5.00</i>		<i>103</i>	<i>86-119</i>			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080181 - EPA 5030 waters
Laboratory Control Sample (3080181-BS2)

Prepared & Analyzed: 08/12/03

Tert-amyl methyl ether	4.46	1.0	ug/l	5.00		89	70-116			
Benzene	4.70	0.50	"	5.00		94	81-118			
Tert-butyl alcohol	90.3	20	"	100		90	62-142			
Di-isopropyl ether	4.26	1.0	"	5.00		85	71-121			
1,2-Dibromoethane (EDB)	4.71	0.50	"	5.00		94	92-117			
1,2-Dichloroethane	4.45	0.50	"	5.00		89	79-126			
Ethyl tert-butyl ether	4.23	1.0	"	5.00		85	71-110			
Methyl tert-butyl ether	4.34	0.50	"	5.00		87	77-123			
Toluene	4.91	0.50	"	5.00		98	84-119			

<i>Surrogate: Dibromofluoromethane</i>	4.82		"	5.00		96	84-122			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.49		"	5.00		90	74-135			
<i>Surrogate: Toluene-d8</i>	5.03		"	5.00		101	84-119			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.80		"	5.00		96	86-119			

Matrix Spike (3080181-MS1)

Source: P308145-05

Prepared & Analyzed: 08/12/03

Tert-amyl methyl ether	276	50	ug/l	250	25	100	70-116			
Benzene	1520	25	"	250	1200	128	81-118			Q-LIM
Tert-butyl alcohol	1750	1000	"	5000	ND	35	62-142			Q-LIM
Di-isopropyl ether	211	50	"	250	ND	84	71-121			
1,2-Dibromoethane (EDB)	261	25	"	250	ND	104	92-117			
1,2-Dichloroethane	260	25	"	250	ND	104	79-126			
Ethyl tert-butyl ether	221	50	"	250	ND	88	71-110			
Methyl tert-butyl ether	1270	25	"	250	980	116	77-123			
Toluene	364	25	"	250	100	106	84-119			
<i>Surrogate: Dibromofluoromethane</i>	4.77		"	5.00		95	84-122			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.61		"	5.00		92	74-135			
<i>Surrogate: Toluene-d8</i>	5.14		"	5.00		103	84-119			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.97		"	5.00		99	86-119			



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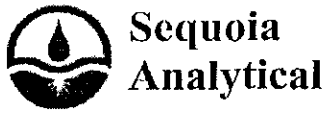
Conor Pacific / BFW 2580 Wyandotte St., Suite G Mountain View CA, 94043	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	P308145 Reported: 08/21/03 18:38
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Notes
Batch 3080181 - EPA 5030 waters										
Matrix Spike Dup (3080181-MSD1)	Source: P308145-05			Prepared & Analyzed: 08/12/03						
Tert-amyl methyl ether	267	50	ug/l	250	25	97	70-116	3	20	
Benzene	1450	25	"	250	1200	100	81-118	5	20	
Tert-butyl alcohol	1830	1000	"	5000	ND	37	62-142	4	20	Q-LIM
Di-isopropyl ether	200	50	"	250	ND	80	71-121	5	20	
1,2-Dibromoethane (EDB)	236	25	"	250	ND	94	92-117	10	20	
1,2-Dichloroethane	252	25	"	250	ND	101	79-126	3	20	
Ethyl tert-butyl ether	212	50	"	250	ND	85	71-110	4	20	
Methyl tert-butyl ether	1230	25	"	250	980	100	77-123	3	20	
Toluene	341	25	"	250	100	96	84-119	7	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>4.81</i>		<i>"</i>	<i>5.00</i>		<i>96</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.52</i>		<i>"</i>	<i>5.00</i>		<i>90</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.05</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.07</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>86-119</i>			

Batch 3080212 - EPA 5030 waters

Blank (3080212-BLK1)				Prepared & Analyzed: 08/12/03						
Tert-amyl methyl ether	ND	1.0	ug/l							
Benzene	ND	0.50	"							
Tert-butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethylbenzene	ND	0.50	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>5.09</i>		<i>"</i>	<i>5.00</i>		<i>102</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.73</i>		<i>"</i>	<i>5.00</i>		<i>95</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.15</i>		<i>"</i>	<i>5.00</i>		<i>103</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.52</i>		<i>"</i>	<i>5.00</i>		<i>110</i>	<i>86-119</i>			



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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080212 - EPA 5030 waters

Laboratory Control Sample (3080212-BS1)

Prepared & Analyzed: 08/12/03

Tert-amyl methyl ether	4.46	1.0	ug/l	5.00		89	70-116			
Benzene	4.70	0.50	"	5.00		94	81-118			
Tert-butyl alcohol	90.3	20	"	100		90	62-142			
Di-isopropyl ether	4.26	1.0	"	5.00		85	71-121			
1,2-Dibromoethane (EDB)	4.71	0.50	"	5.00		94	92-117			
1,2-Dichloroethane	4.45	0.50	"	5.00		89	79-126			
Ethyl tert-butyl ether	4.23	1.0	"	5.00		85	71-110			
Methyl tert-butyl ether	4.34	0.50	"	5.00		87	77-123			
Toluene	4.91	0.50	"	5.00		98	84-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>4.82</i>		<i>"</i>	<i>5.00</i>		<i>96</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.49</i>		<i>"</i>	<i>5.00</i>		<i>90</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.03</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>4.80</i>		<i>"</i>	<i>5.00</i>		<i>96</i>	<i>86-119</i>			

Matrix Spike (3080212-MS1)

Source: P308145-06

Prepared & Analyzed: 08/12/03

Tert-amyl methyl ether	4.77	1.0	ug/l	5.00	ND	95	70-116			
Benzene	8.10	0.50	"	5.00	2.9	104	81-118			
Tert-butyl alcohol	76.5	20	"	100	ND	76	62-142			
Di-isopropyl ether	3.99	1.0	"	5.00	ND	80	71-121			
1,2-Dibromoethane (EDB)	4.65	0.50	"	5.00	ND	93	92-117			
1,2-Dichloroethane	4.46	0.50	"	5.00	ND	89	79-126			
Ethyl tert-butyl ether	4.26	1.0	"	5.00	ND	85	71-110			
Methyl tert-butyl ether	14.8	0.50	"	5.00	11	76	77-123			Q-LIM
Toluene	4.92	0.50	"	5.00	0.21	94	84-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>4.81</i>		<i>"</i>	<i>5.00</i>		<i>96</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.53</i>		<i>"</i>	<i>5.00</i>		<i>91</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.09</i>		<i>"</i>	<i>5.00</i>		<i>102</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>4.88</i>		<i>"</i>	<i>5.00</i>		<i>98</i>	<i>86-119</i>			



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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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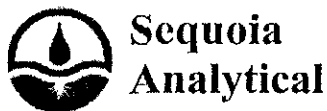
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080212 - EPA 5030 waters

Matrix Spike Dup (3080212-MSD1)	Source: P308145-06	Prepared & Analyzed: 08/12/03								
Tert-amyl methyl ether	5.07	1.0	ug/l	5.00	ND	101	70-116	6	20	
Benzene	7.92	0.50	"	5.00	2.9	100	81-118	2	20	
Tert-butyl alcohol	77.4	20	"	100	ND	77	62-142	1	20	
Di-isopropyl ether	4.35	1.0	"	5.00	ND	87	71-121	9	20	
1,2-Dibromoethane (EDB)	4.97	0.50	"	5.00	ND	99	92-117	7	20	
1,2-Dichloroethane	4.57	0.50	"	5.00	ND	91	79-126	2	20	
Ethyl tert-butyl ether	4.53	1.0	"	5.00	ND	91	71-110	6	20	
Methyl tert-butyl ether	15.3	0.50	"	5.00	11	86	77-123	3	20	
Toluene	5.15	0.50	"	5.00	0.21	99	84-119	5	20	
Surrogate: Dibromofluoromethane	4.75		"	5.00		95	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.42		"	5.00		88	74-135			
Surrogate: Toluene-d8	4.86		"	5.00		97	84-119			
Surrogate: 4-Bromofluorobenzene	4.69		"	5.00		94	86-119			

Batch 3080244 - EPA 5030 waters

Blank (3080244-BLK1)	Prepared & Analyzed: 08/13/03									
Tert-amyl methyl ether	ND	1.0	ug/l							
Benzene	ND	0.50	"							
Tert-butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethylbenzene	ND	0.50	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	5.02		"	5.00		100	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.90		"	5.00		98	74-135			
Surrogate: Toluene-d8	5.12		"	5.00		102	84-119			
Surrogate: 4-Bromofluorobenzene	6.45		"	5.00		129	86-119			S-LIM



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Conor Pacific / EFW
 2580 Wyandotte St., Suite G
 Mountain View CA, 94043

Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080244 - EPA 5030 waters

Laboratory Control Sample (3080244-BS1)

Prepared & Analyzed: 08/13/03

Tert-amyl methyl ether	5.10	1.0	ug/l	5.00		102	70-116			
Benzene	5.06	0.50	"	5.00		101	81-118			
Tert-butyl alcohol	92.6	20	"	100		93	62-142			
Di-isopropyl ether	5.63	1.0	"	5.00		113	71-121			
1,2-Dibromoethane (EDB)	5.06	0.50	"	5.00		101	92-117			
1,2-Dichloroethane	4.81	0.50	"	5.00		96	79-126			
Ethyl tert-butyl ether	5.33	1.0	"	5.00		107	71-110			
Methyl tert-butyl ether	5.22	0.50	"	5.00		104	77-123			
Toluene	5.21	0.50	"	5.00		104	84-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>5.10</i>		<i>"</i>	<i>5.00</i>		<i>102</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.10</i>		<i>"</i>	<i>5.00</i>		<i>102</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.11</i>		<i>"</i>	<i>5.00</i>		<i>102</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.38</i>		<i>"</i>	<i>5.00</i>		<i>108</i>	<i>86-119</i>			

Matrix Spike (3080244-MS1)

Source: P308226-01

Prepared & Analyzed: 08/13/03

Tert-amyl methyl ether	5.19	1.0	ug/l	5.00	ND	104	70-116			
Benzene	5.52	0.50	"	5.00	0.29	105	81-118			
Tert-butyl alcohol	80.8	20	"	100	ND	81	62-142			
Di-isopropyl ether	6.92	1.0	"	5.00	1.4	110	71-121			
1,2-Dibromoethane (EDB)	5.11	0.50	"	5.00	ND	102	92-117			
1,2-Dichloroethane	5.07	0.50	"	5.00	ND	101	79-126			
Ethyl tert-butyl ether	5.19	1.0	"	5.00	ND	104	71-110			
Methyl tert-butyl ether	5.29	0.50	"	5.00	ND	106	77-123			
Toluene	6.32	0.50	"	5.00	0.91	108	84-119			
<i>Surrogate: Dibromofluoromethane</i>	<i>5.18</i>		<i>"</i>	<i>5.00</i>		<i>104</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.43</i>		<i>"</i>	<i>5.00</i>		<i>109</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.27</i>		<i>"</i>	<i>5.00</i>		<i>105</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.05</i>		<i>"</i>	<i>5.00</i>		<i>121</i>	<i>86-119</i>			<i>S-LIM</i>

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



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Conor Pacific / EFW
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 Mountain View CA, 94043

Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P308145
 Reported:
 08/21/03 18:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080244 - EPA 5030 waters										
Matrix Spike Dup (3080244-MSD1)		Source: P308226-01		Prepared & Analyzed: 08/13/03						
Tert-amyl methyl ether	5.27	1.0	ug/l	5.00	ND	105	70-116	2	20	
Benzene	5.37	0.50	"	5.00	0.29	102	81-118	3	20	
Tert-butyl alcohol	83.8	20	"	100	ND	84	62-142	4	20	
Di-isopropyl ether	6.84	1.0	"	5.00	1.4	109	71-121	1	20	
1,2-Dibromoethane (EDB)	5.21	0.50	"	5.00	ND	104	92-117	2	20	
1,2-Dichloroethane	5.05	0.50	"	5.00	ND	101	79-126	0.4	20	
Ethyl tert-butyl ether	5.17	1.0	"	5.00	ND	103	71-110	0.4	20	
Methyl tert-butyl ether	5.31	0.50	"	5.00	ND	106	77-123	0.4	20	
Toluene	6.12	0.50	"	5.00	0.91	104	84-119	3	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>5.07</i>		<i>"</i>	<i>5.00</i>		<i>101</i>	<i>84-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.15</i>		<i>"</i>	<i>5.00</i>		<i>103</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.00</i>		<i>"</i>	<i>5.00</i>		<i>100</i>	<i>84-119</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.57</i>		<i>"</i>	<i>5.00</i>		<i>111</i>	<i>86-119</i>			

Conor Pacific / EFW
2580 Wyandotte St., Suite G
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Project: B&C Gas Mini Mart
Project Number: BNC103
Project Manager: Katrin Schliewen

P308145
Reported:
08/21/03 18:38

Notes and Definitions

- A-01 Analyte cannot be properly quantitated due to internal standard interference from the sample matrix.
- Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.
- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- S-LIM The surrogate recovery was outside control limits. The result may still be useful for its intended purpose.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



CHAIN OF CUSTODY

Quotation No. _____

PROJECT NO.: BNC103	SITE NAME: BNC GAS MINI MART	ANALYSES				EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SAMPLER(S): C. MOIR	C. Muir	TPH GAS BTEX OXY-8 BY EPA 8260				
<small>(printed)</small>	<small>(signature)</small>					
CONTRACT LABORATORY: SEQUOIA - PETALUMA		Container Info				
TURN-AROUND TIME: STANDARD						

Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	NOA	NOA	Cont. Qty.	Remarks
		Date	Time			Filter	ADML	ADML		
MW-1	P308145	8/4/03	1535	WATER	✓	3	3	3	6	
MW-2	-2		1439			3	3	3	6	
MW-3	-3		1625			3	3	3	6	
MW-4	-4	✓	1708			3	3	3	6	
MW-5	-5	8/5/03	1015			3	3	3	6	
MW-7	-6		1129			3	3	3	6	
MW-8	-7		1623			3	3	3	6	
MW-9	-8		1055			3	3	3	6	
MW-10	-9		1553			3	3	3	6	
MW-11	-10		1513			3	3	3	6	
MW-12	-11		1402			3	3	3	6	
MW-13	-12		1655			3	3	3	6	COOLER CUSTODY SEALS INTACT <input type="checkbox"/>
D-1	-13		1452			3	3	3	6	NOT INTACT <input type="checkbox"/>
D-2	-14		1338			3	3	3	6	COOLER TEMPERATURE 3.6 °C
MSMWD1	-15		1207			3	3	3	6	

Relinquished by: (signature) C. Muir	Received by: (signature) [Signature] SEQ MIT	Date/Time: 8/7/03 1240	SEND RESULTS TO: Attn: KATRIN SCHLIEWEN Conor Pacific/EFW 2580 Wyandotte St., Suite G Mountain View, CA 94043 Phone (650) 386-3828 Fax (650) 386-3815
Relinquished by: (signature) [Signature] 8/7/03 1910	Received by: (signature) Annelin Jensen SEQ MIT	Date/Time: 8-7-03 1910	
Relinquished by: (signature) Annelin Jensen SEQ MIT	Received by: (signature) [Signature]	Date/Time: 8-8-03 1615	

white: lab copy yellow: project file

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: <u>EPW</u>	DATE Received at Lab: <u>8-8-03</u>	(Drinking water) for regulatory purposes: YES/NO
REC. BY (PRINT) <u>MS</u>	TIME Received at Lab: <u>11:15</u>	(Wastewater) for regulatory purposes: YES/NO
WORKORDER: <u>P308145</u>	LOG IN DATE: <u>8/8/03</u>	

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*			MW-1	XGM	✓	8-4-03	
2. Chain-of-Custody Present / Absent*			2				
3. Traffic Reports or Packing List: Present / Absent			3				
4. Airbill: Airbill / Sticker Present / Absent			4				
5. Airbill #.			5			8-5-03	
6. Sample Labels: Present / Absent			6				
7. Sample IDs: Listed / Not Listed on Chain-of-Custody			7				
8. Sample Condition: Intact / Broken* / Leaking*			8				
9. Does information on custody reports, traffic reports and sample labels agree? Yes / No*			9				
10. Sample received within hold time: Yes / No*			10				
11. Proper Preservatives used: Yes / No*			11				
12. Temp Rec. at Lab: (Acceptance range for samples requiring thermal pres.: 4+/-2°C) Yes / No*			12				
			D-1				
			2				
			MSMNO1				

***If Circled, contact Project Manager and attach record of resolution.**

APPENDIX C

Historical Groundwater Elevations and Analytical Results

Table C-1
Historical Groundwater Elevations
B & C Gas Mini Mart
Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)	
MW-1	487.00	09/22/88	60.50	426.50			
		08/02/90	43.10	443.90			
		10/10/91	66.39	420.61			
		01/08/92	68.72	418.28			
		05/11/93	34.76	452.24			
		09/21/93	38.70	448.30			
		05/22/94	33.57	453.43			
		484.07	06/19/94	37.51	446.56		
			08/25/94	43.27	440.80		
			11/22/94	40.58	443.49		
	03/13/95		28.06	456.01			
	06/01/95		21.76	462.31			
	02/29/96		18.86	465.21			
	02/01/97		NM	NM			
	07/30/98		25.90	458.17			
	11/05/98		33.23	450.84			
	03/23/99		25.49	458.58			
	06/08/99		27.78	456.29			
	09/27/99		30.65	453.42			
	12/20/99		32.99	451.08			
	03/21/00		23.95	460.12			
	06/21/00		26.55	457.52			
	09/12/00		29.58	454.49			
	12/07/00	30.70	453.37				
	03/21/01	29.80	454.27				
	06/20/01	34.91	449.16				
09/16/02	37.64	446.43					
12/23/02	31.54	452.53					
03/18/03	31.57	452.50					
06/09/03	30.66	453.41					
08/04/03	34.15	449.92					

Table C-1
 Historical Groundwater Elevations
 B & C Gas Mini Mart
 Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
MW-2	483.86	06/19/94	38.15	445.71		
		08/25/94	44.13	-	43.47	0.66
		11/22/94	40.96	-	40.92	0.04
		03/09/95	29.28	-	28.47	0.81
		03/13/95	28.71	-	28.29	0.42
		06/01/95	22.61	461.25		
		02/29/96	20.05	463.81		
		02/01/97	18.30	465.56		
		07/30/98	25.75	-	25.74	0.01
		11/05/98	33.31	450.55		
		03/23/99	25.51	458.35		
		06/08/99	27.54	456.32		
		09/27/99	30.73	453.13		
		12/20/99	33.02	450.84		
		03/21/00	24.13	459.73		
		06/21/00	26.26	457.60		
		09/12/00	29.40	454.46		
		12/08/00	30.60	453.26		
		03/21/01	29.63	454.23		
		06/20/01	34.68	449.18		
		09/16/02	37.42	446.44	37.41	0.01
		12/23/02	31.46	452.40	FP	
		03/18/03	31.42	452.44	FP	
06/09/03	30.41	453.45				
08/04/03	33.87	449.99				

Table C-1
Historical Groundwater Elevations
B & C Gas Mini Mart
Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
MW-3	484.24	06/19/94	37.15	447.09		
		08/25/94	42.31	441.93		
		11/22/94	40.07	444.17		
		03/13/95	27.94	456.30		
		06/01/95	21.31	462.93		
		02/29/96	18.78	465.46		
		02/01/97	16.97	467.27		
		07/30/98	24.88	459.36		
		11/05/98	32.09	452.15		
		03/23/99	24.49	459.75		
		06/08/99	26.77	457.47		
		09/27/99	29.52	454.72		
		12/20/99	31.85	452.39		
		03/21/00	22.95	461.29		
		06/21/00	25.60	458.64		
		09/12/00	28.40	455.84		
		12/07/00	29.56	454.68		
		03/21/01	28.69	455.55		
		06/20/01	33.61	450.63		
		09/16/02	36.30	447.94		
12/23/02	30.38	453.86				
03/18/03	30.56	453.68				
06/09/03	29.51	454.73				
08/04/03	32.02	452.22				
MW-4	485.04	06/19/94	37.49	447.55		
		08/25/94	42.25	442.79		
		11/22/94	40.59	444.45		
		03/13/95	28.00	457.04		
		06/01/95	21.51	463.53		
		02/29/96	18.42	466.62		
		02/01/97	17.47	467.57		
		07/30/98	25.47	459.57		
		11/05/98	32.67	452.37		
		03/23/99	25.09	459.95		
		06/08/99	27.43	457.61		
		09/27/99	30.16	454.88		
		12/20/99	32.52	452.52		
		03/21/00	23.43	461.61		
		06/21/00	26.14	458.90		
		09/12/00	29.03	456.01		
		12/07/00	29.15	455.89		
		03/21/01	29.35	455.69		
		06/20/01	34.40	450.64		
		09/16/02	36.30	448.74		
12/23/02	30.93	454.11				
03/18/03	31.11	453.93				
06/09/03	30.21	454.83				
08/04/03	33.60	451.44				

Table C-1
 Historical Groundwater Elevations
 B & C Gas Mini Mart
 Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
MW-5	481.97	02/29/96	19.35	462.62		
		02/01/97	18.19	463.78		
		07/30/98	25.25	456.72	25.24	0.01
		11/05/98	32.70	449.27	32.48	0.22
		03/23/99	25.15	456.82		
		06/08/99	27.27	454.70		
		09/27/99	30.00	451.97		
		12/20/99	32.30	449.67	32.23	0.07
		03/21/00	23.55	458.42		
		06/21/00	26.04	455.93		
		09/12/00	28.90	453.07		
		12/07/00	29.89	452.08		
		03/21/01	29.16	452.81	29.15	0.01
		06/20/01	34.04	447.93	33.89	0.15
		09/16/02	36.70	445.27	36.69	0.01
		12/23/02	31.36	450.61	FP	
		03/18/03	31.45	450.52		
		06/09/03	30.48	451.49		
08/04/03	33.51	448.46				
MW-6	483.93	02/29/96	20.32	463.61		
		02/01/97	18.92	465.01		
		07/30/98	25.59	458.34	25.58	0.01
		11/05/98	NM >28.4	NM		
		03/23/99	25.43	458.50		
		06/08/99	27.43	456.50		
		09/27/99	NM >28.6	NM		
		12/20/99	NM >28.7	NM		
		03/21/00	24.02 *	459.91		
		06/21/00	26.04 *	457.89		
		09/12/00	NM >28.7	NM		
		12/07/00	NM >28.6	NM		
		03/21/01	NM >28.7	NM		
		06/20/01	NM >28.7	NM		
		09/16/02	NM*	NM		
		12/23/02	NM*	NM		
		03/18/03	NM*	NM		
		06/09/03	NM*	NM		
08/04/03	NM*	NM				

Table C-1
Historical Groundwater Elevations
B & C Gas Mini Mart
Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
MW-7	478.14	7/12/1999	28.37	449.77		
		09/27/99	30.20	447.94		
		12/20/99	32.44	445.70		
		03/21/00	24.18	453.96		
		06/21/00	26.70	451.44		
		09/12/00	29.28	448.86		
		12/07/00	30.23	447.91		
		03/21/01	29.39	448.75		
		06/02/01	34.38	443.76		
		09/16/02	37.05	441.09		
		12/23/02	31.47	446.67		
		03/18/03	31.39	446.75		
		06/09/03	30.48	447.66		
08/04/03	33.95	444.19				
MW-8	473.23	7/12/1999	34.29	438.94		
		09/27/99	37.11	436.12		
		12/20/99	39.79	433.44		
		03/21/00	29.10	444.13		
		06/21/00	31.90	441.33		
		09/12/00	35.75	437.48		
		12/07/00	36.88	436.35		
		03/21/01	35.25	437.98		
		06/02/01	41.78	431.45		
		09/16/02	43.32	429.91		
		12/23/02	38.28	434.95		
		03/18/03	38.28	434.95		
		06/09/03	36.49	436.74		
08/04/03	40.15	433.08				
MW-9	477.08	7/12/1999	30.71	446.37		
		09/27/99	32.61	444.47		
		12/20/99	34.99	442.09		
		03/21/00	26.75	450.33		
		06/21/00	29.28	447.80		
		09/12/00	31.65	445.43		
		12/07/00	32.67	444.41		
		03/21/01	31.47	445.61		
		06/02/01	37.40	439.68		
		09/16/02	39.13	437.95		
		12/23/02	33.89	443.19		
		03/18/03	33.66	443.42		
		06/09/03	32.65	444.43		
08/04/03	36.09	440.99				

Table C-1
 Historical Groundwater Elevations
 B & C Gas Mini Mart
 Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
MW-10	471.42	7/12/1999	34.60	436.82		
		09/27/99	37.62	433.80		
		12/20/99	40.04	431.38		
		03/21/00	29.50	441.92		
		06/21/00	32.19	439.23		
		09/12/00	36.19	435.23		
		12/07/00	37.24	434.18		
		03/21/01	35.77	435.65		
		06/02/01	42.25	429.17		
		09/16/02	44.03	427.39		
		12/23/02	39.02	432.40		
		03/18/03	38.40	433.02		
		06/09/03	37.34	434.08		
08/04/03	40.78	430.64				
MW-11	464.93	7/12/1999	31.00	433.93		
		09/27/99	33.83	431.10		
		12/20/99	35.91	429.02		
		03/21/00	26.41	438.52		
		06/21/00	28.79	436.14		
		09/12/00	32.56	432.37		
		12/07/00	33.40	431.53		
		03/21/01	31.92	433.01		
		06/20/01	38.24	426.69		
		09/16/02	39.87	425.06		
		12/23/02	35.54	429.39		
		03/18/03	34.32	430.61		
		06/09/03	33.65	431.28		
08/04/03	37.05	427.88				
MW-12	458.34	7/12/1999	25.50	432.84		
		09/27/99	28.28	430.06		
		12/20/99	30.26	428.08		
		03/21/00	20.70	437.64		
		06/21/00	23.11	435.23		
		09/12/00	27.04	431.30		
		12/07/00	27.67	430.67		
		03/21/01	26.24	432.10		
		06/20/01	32.89	425.45		
		09/16/02	34.63	423.71		
		12/23/02	29.84	428.50		
		03/18/03	28.64	429.70		
		06/09/03	28.06	430.28		
08/04/03	31.58	426.76				

Table C-1
Historical Groundwater Elevations
B & C Gas Mini Mart
Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
MW-13	474.79	7/12/1999	30.65	444.14		
		09/27/99	32.74	442.05		
		12/20/99	34.98	439.81		
		03/21/00	26.03	448.76		
		06/21/00	28.74	446.05		
		09/12/00	31.62	443.17		
		12/07/00	32.71	442.08		
		03/21/01	31.25	443.54		
		06/20/01	36.55	438.24		
		09/16/02	38.98	435.81		
		12/23/02	33.39	441.40		
		03/18/03	33.44	441.35		
		06/09/03	32.24	442.55		
08/04/03	35.60	439.19				
D-1	464.70	7/12/1999	30.67	434.03		
		09/27/99	35.32	429.38		
		12/20/99	36.32	428.38		
		03/21/00	27.84	436.86		
		06/21/00	30.40	434.30		
		09/12/00	34.11	430.59		
		12/07/00	33.97	430.73		
		03/21/01	32.32	432.38		
		06/20/01	41.80	422.90		
		09/16/02	43.53	421.17		
		12/23/02	37.23	427.47		
		03/18/03	35.50	429.20		
		06/09/03	36.20	428.50		
08/04/03	39.53	425.17				
D-2	457.61	7/12/1999	25.72	431.89		
		09/27/99	28.44	429.17		
		12/20/99	29.40	428.21		
		03/21/00	20.91	436.70		
		06/21/00	23.56	434.05		
		09/12/00	27.23	430.38		
		12/07/00	27.98	429.63		
		03/21/01	25.42	432.19		
		06/20/01	34.97	422.64		
		09/16/02	34.80	422.81		
		12/23/02	30.34	427.27		
		03/18/03	28.63	428.98		
		06/09/03	29.35	428.26		
08/04/03	32.65	424.96				

Table C-1
 Historical Groundwater Elevations
 B & C Gas Mini Mart
 Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
(MS)MW-1	477.79	07/30/98	30.37	447.42	30.35	0.02
		11/05/98	38.01	439.78	FP	
		03/23/99	29.44	448.35	FP	
		06/08/99	31.70	446.09	FP	
		09/27/99	34.38	443.41		
		12/20/99	37.36	440.43		
		03/21/00	28.22	449.57		
		06/21/00	30.95	446.84		
		09/12/00	33.54	444.25		
		12/07/00	34.56	443.23		
		03/21/01	33.24	444.55	FP	
		06/20/01	39.35	438.44	FP	
		09/16/02	41.07	436.72	41.06	0.01
		12/23/02	35.80	441.99	FP	
		03/18/03	35.82	441.97	FP	
		06/09/03	34.20	443.59		
		08/04/03	38.01	439.78		

Notes: Data prior to 1998 from RSI quarterly reports. February 1997 date unknown.
 MSL = mean sea level
 NM = not measured
 MS = Mill Springs Park
 FP - free product visible in purge or sample water
 Some water levels may not be included in this table, as the results were not available when the data was compiled
 * Obstruction in well MW-6 at approximately 28.6 feet below top of casing, or as indicated by ">"
 ** Suspect a measurement error for the water level in well MW-2 on 12/7/00

Table C-2
Historical Groundwater Analytical Results
B&C Gas Mini Mart
Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
MW-1	08/02/90	24,000	1,300	1,300	400	2,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	10/10/91	2,000	430	170	100	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	01/08/92	1,000	200	120	30	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	05/11/93	960	66	8	41	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	09/21/93	1,900	311	118	34	112	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	05/22/94	10,000	690	1,100	340	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	08/26/94	13,000	290	690	120	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	11/22/94	19,000	400	770	230	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	03/13/95	6,000	900	100	980	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	06/21/95	2,400	210	380	53	280	13,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	09/14/95	7,800	69	1,300	220	1,200	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	02/29/96	120	4.2	1.4	4.7	5.6	14	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	02/01/97	NS*	NS*	NS*	NS*	NS*	NS*	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	07/30/98	1,400	26	110	57	243	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	11/05/98	6,000	230	330	240	1,060	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	03/23/99	6,600	280	420	240	990	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	06/08/99	1,630	70.4	51.7	54.6	138	66.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	03/22/00	300	17.6	14.2	9.89	40.7	7.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	09/13/00	1,500	105	50.7	46.5	157	45.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	03/19/03	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**
MW-1	6/9/2003	6,700	52	32	110	460	4.7	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
MW-1	8/4/2003	2,700	150	32	97	450	43	<5	<5	<10	<1,000	<10	<10	<200	NA	NA
MW-2	06/19/94	290,000	18,000	36,000	4,600	26,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	08/26/94	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	11/22/94	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	03/13/95	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	06/21/95	25,000	2,300	3,400	720	3,100	16,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	09/14/95	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	02/29/96	57,000	2,500	650	3,700	3,100	6,500	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	02/01/97	20,000	860	1,500	480	1,000	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	07/30/98	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	11/05/98	40,000	2,400	2,500	2,100	7,200	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	03/23/99	22,000	780	880	780	1,730	300	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-2
 Historical Groundwater Analytical Results
 B&C Gas Mini Mart
 Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
MW-2	06/08/99	11,200	352	454	540	639	343	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	09/28/99	18,000	992	331	901	2,140	225	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	12/21/99	19,200	1,340	818	1,050	2,130	579	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	03/23/00	6,340	281	184	233	348	90.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	06/22/00	5,820	128	94.4	155	161	67.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	09/13/00	18,100	981	926	1,080	2,630	239	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	12/08/00	8,010	548	172	453	621	142	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	03/01/01	18,800	1,300	790	1,150	2,250	372	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	06/01/01	20,000	1,800	750	1,800	2,700	330	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	09/16/02	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	03/20/03	10,000	608	99	1,080	NA	<200	<20	<20	<40	<2000	<40	<40	<2,000	352	27.5
MW-2	06/10/03	12,000	650	94	1,100	570	280	<50	<50	<100	<10,000	<100	<100	<2,000	NA	NA
MW-2	8/4/2003	12,000	300	56	450	230	61	<12	<12	<25	<2,500	<25	<25	<500	NA	NA
MW-3	06/19/94	11,000	640	580	270	790	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	08/26/94	41,000	1,600	2,300	330	1,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	11/22/94	18,000	8,000	10,000	900	5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	03/13/95	44,000	1,600	1,300	5,000	6,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	06/21/95	15,000	600	1,900	490	2,600	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	09/14/95	8,000	710	1,100	180	870	2,700	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	02/29/96	13,000	230	200	200	1,100	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	02/01/97	11,000	260	550	170	600	900	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	07/30/98	25,000	330	1,200	490	1,860	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	11/05/98	26,000	400	2,100	820	3,600	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	03/23/99	6,900	100	160	110	265	220	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	06/08/99	1,210	5.4	9.0	6.9	4.3	53.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	03/23/00	465	4.56	1.87	6.20	7.45	15.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	09/13/00	488	37.3	5.64	7.25	15.9	160	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	03/19/03	2,300	118	14.6	46.1	NA	121	<0.5	<0.5	<1	<50	<1	<1	<50	24.1	7.57
MW-3	06/09/03	870	79	5	13	10	180	<5	<5	<10	<1,000	<10	<10	<200	NA	NA
MW-3	8/4/2003	530	7	<2.5	6.8	4	19	<2.5	<2.5	<5	<500	<5	<5	<100	NA	NA
MW-4	06/19/94	810	12	25	<0.5	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	08/26/94	850	37	51	9.5	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-2
 Historical Groundwater Analytical Results
 B&C Gas Mini Mart
 Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
MW-4	11/22/94	1,700	110	110	5.8	58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	03/13/95	1,300	180	8	52	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	06/21/95	ND	3	1	ND	1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	09/14/95	<50	1	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	02/29/96	87	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	02/01/97	<50	<0.5	<0.5	<0.5	<0.5	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	07/30/98	<50	<0.4	1	<0.3	1	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	11/05/98	<50	1	<0.3	<0.3	<0.8	27	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	03/23/99	<50	<0.4	<0.3	<0.3	<0.8	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	06/08/99	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	03/22/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	09/13/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	03/20/03	<50	<0.5	<0.5	<0.5	NA	<5	<0.5	<0.5	<1	<50	<1	<1	<50	<1	<0.5
MW-4	06/09/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
MW-4	8/4/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
MW-5	10/26/95	120,000	16,000	26,000	3,100	15,000	39,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	02/29/96	47,000	3,400	4,200	860	4,100	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	02/01/97	28,000	1,300	1,500	480	1,000	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	07/30/98	47,000	1,400	4,000	2,000	8,500	600	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	11/05/98	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	03/23/99	36,000	1,500	2,400	1,500	5,500	900	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	06/08/99	34,500	722	1,980	1,720	7,170	765	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	09/28/99	49,100	540	2,500	1,730	8,040	255	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	12/21/99	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	03/23/00	10,700	217	300	332	1,480	160	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	06/22/00	23,000	537	533	1,040	2,590	131***	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	09/13/00	41,300	780	551	1,140	3,390	243***	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	12/08/00	21,700	600	328	527	1,450	285***	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	03/01/01	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	09/16/02	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	03/20/03	17,000	682	36.7	936	NA	250 - R	<0.5	<0.5	<1	<50	<1	<1	<50	620	35.2
MW-5	06/10/03	23,000	770	<100	1,000	680	350	<100	<100	<200	<20,000	<200	<200	<4,000	NA	NA
MW-5	8/5/2003	17,000	1,200	100	930	500	980	<25	<25	<50	<5,000	<50	<50	<1,000	NA	NA

Table C-2
Historical Groundwater Analytical Results
B&C Gas Mini Mart
Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
MW-6	10/26/95	110,000	9,900	22,000	3,200	17,000	47,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	02/29/96	23,000	2,000	460	2,900	2,600	6,300	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	02/01/97	12,000	450	780	200	590	790	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	07/30/98	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	11/05/98	NS*	NS*	NS*	NS*	NS*	NS*	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	03/23/99	5,700	240	260	120	440	150	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	06/08/99	7,610	259	334	283	567	275	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	12/21/99	NS*	NS*	NS*	NS*	NS*	NS*	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	03/22/00	10,100	276	170	200	673	159	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	06/22/00	NS*	NS*	NS*	NS*	NS*	NS*	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	03/19/03	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*
MW-6	06/09/03	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*
MW-6	8/4/2003*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
MW-7	07/01/99	5,090	31.9	4.8	60	219	43.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	09/28/99	2,160	2.8	8.2	5.9	27.3	14.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	12/21/99	2,630	<2.5	<2.5	13.8	44.9	26.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	03/23/00	624	<0.5	<0.5	<0.5	1.61	3.87	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	06/22/00	435	<0.5	<0.5	0.875	1.28	4.87	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	09/13/00	327	<0.5	<0.5	0.602	1.56	3.77	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	12/08/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	03/01/01	569	<0.5	2.05	0.533	0.701	4.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	06/01/01	3,900	3.5	14	29	55	18	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	09/16/02	4,500	47	6.8	99	19	120	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	12/23/02	860	12	1.3	7.6	1.9	45	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	03/19/03	500	15.1	1.22	15.8	NA	18.8	<0.5	<0.5	<1	<50	<1	<1	<50	<2	<1
MW-7	06/11/03	170	1	<1	1.8	<1	4.7	<1	<1	<2	<200	<2	<2	<40	NA	NA
MW-7	8/5/2003	330	2.9	<0.5	3.9	<0.5	11	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
MW-8	06/24/99	<50	<0.5	<0.5	<0.5	<0.5	88.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	09/28/99	<50	<0.5	<0.5	<0.5	<0.5	52	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	47.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	03/21/00	<50	<0.5	<0.5	<0.5	<0.5	4.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	06/22/00	<50	<0.5	<0.5	<0.5	<0.5	5.56	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	09/13/00	<50	<0.5	<0.5	<0.5	<0.5	14.3	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-2
 Historical Groundwater Analytical Results
 B&C Gas Mini Mart
 Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
MW-8	12/07/00	<50	<0.5	<0.5	<0.5	<0.5	7.83	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	03/01/01	<50	<0.5	<0.5	<0.5	<0.5	2.93	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	06/01/01	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	09/16/02	<50	0.52	<0.5	<0.5	<0.5	55	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	12/23/02	<50	0.52	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	03/19/03	<50	<1	<1	<1	NA	8.81	<0.5	<0.5	<1	<50	<1	<1	<50	<2	<1
MW-8	06/11/03	<50	<0.5	<0.5	<0.5	<0.5	5.4	<0.5	<0.5	<1	<100	<1	<1	<0.5	NA	NA
MW-8	8/5/2003	<50	<2.5	<2.5	<2.5	<2.5	23	<2.5	<2.5	<5	<500	<5	<5	<100	NA	NA
MW-9	06/24/99	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	12/21/99	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	03/21/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	09/13/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	09/16/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	12/23/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	03/20/03	<50	<0.5	<0.5	<0.5	NA	<5	<0.5	<0.5	<1	<50	<1	<1	<50	<1	<0.5
MW-9	06/09/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<0.5	NA	NA
MW-9	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
MW-10	06/24/99	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	09/28/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	46.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	03/21/00	52.7	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	06/21/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	09/13/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	12/07/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	03/01/01	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	06/01/01	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	09/16/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	12/23/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	03/19/03	<50	<1	<1	<1	NA	<5	<0.5	<0.5	<1	<50	<1	<1	<50	<1	<1
MW-10	06/09/03	<50	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<1	<100	<1	<1	<0.5	NA	NA
MW-10	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA

Table C-2
Historical Groundwater Analytical Results
B&C Gas Mini Mart
Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
MW-11	06/28/99	91	0.7	2.0	1.1	2.6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	09/28/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	03/22/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	09/13/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	03/18/03	<50	<1	<1	<1	NA	<5	<0.5	<0.5	<1	<50	<1	<1	<50	<1	<1
MW-11	06/10/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<0.5	NA	NA
MW-11	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
MW-12	06/28/99	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	09/28/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	03/22/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	06/21/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	09/13/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	12/07/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	03/01/01	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	06/01/01	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	09/16/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	12/24/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	03/18/03	<50	<1	<1	<1	NA	<5	<0.5	<0.5	<1	<50	<1	<1	<50	<1	<1
MW-12	06/10/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<0.5	NA	NA
MW-12	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
MW-13	07/12/99	214	42.8	<0.5	4.5	<0.5	332	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	09/28/99	<100	5.8	<1	<1	<1	160	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	12/21/99	71	6.7	<0.5	1.4	<0.5	132	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	03/21/00	<50	2.32	<0.5	<0.5	<0.5	53.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	06/22/00	<50	7.83	<0.5	0.73	<0.5	38.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	09/13/00	<50	6.01	<0.5	<0.5	<0.5	77.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	12/07/00	<50	1.51	<0.5	<0.5	<0.5	25.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	03/01/01	83.9	4.92	<0.5	<0.5	1.02	64.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	06/01/01	190	14	<0.5	4.9	0.91	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	09/16/02	150	7.0	<0.5	5.5	<0.5	27	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	12/23/02	210	9.3	<0.5	5.1	<0.5	55	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-2
Historical Groundwater Analytical Results
B&C Gas Mini Mart
Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
MW-13	03/19/03	100	7.19	<1	<1	NA	34.8	<0.5	<0.5	<1	<50	<1	<1	<50	<1	<1
MW-13	06/11/03	77	4.0	<0.5	<0.5	<0.5	28	<0.5	<0.5	<1	<100	<1	<1	<0.5	NA	NA
MW-13	8/5/2003	240	8.4	<5	<5	<5	65	<5	<5	<10	<1,000	<10	<10	<200	NA	NA
D-1	06/29/99	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-1	09/28/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-1	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-1	03/22/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-1	09/13/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-1	03/18/03	<50	<1	<1	<1	NA	<5	<0.5	<0.5	<1	<50	<1	<1	<50	<1	<1
D-1	06/10/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<0.5	NA	NA
D-1	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
D-2	06/29/99	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	09/28/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	03/22/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	06/21/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	09/13/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	12/07/00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	03/01/01	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	06/01/01	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	09/16/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	12/24/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	03/18/03	<50	<1	<1	<1	NA	<5	<0.5	<0.5	<1	<50	<1	<1	<50	<1	<1
D-2	06/10/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<0.5	NA	NA
D-2	8/5/2003	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<100	<1	<1	<20	NA	NA
(MS)MW-1	08/01/95	11,000	190	260	110	900	210	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	07/30/98	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	11/05/98	10,000	260	120	500	1,100	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	03/23/99	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	06/08/99	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	12/21/99	661	9.7	3.5	21.7	31.1	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	03/23/00	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-2
 Historical Groundwater Analytical Results
 B&C Gas Mini Mart
 Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
(MS)MW-1	06/21/00	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	09/13/00	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	12/07/00	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	03/01/01	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	06/01/01	NS**	NS**	NS**	NS**	NS**	NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(MS)MW-1	03/19/03	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**	NS**
(MS)MW-1	06/11/03	370	<1	<1	1.2	<1	<1	<1	<1	<2	<200	<2	<2	<40	NA	NA
(MS)MW-1	8/5/2003	1,900	25	<10	55	<10	<10	<10	<10	<20	<2,000	<20	<20	<400	NA	NA

Notes on page 10.

Table C-2
 Historical Groundwater Analytical Results
 B&C Gas Mini Mart
 Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
<i>SimulProbe Samples</i>																
MW-7-36'	06/16/99	1,740	194	18.6	103	<2.5	593	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7-41'	06/16/99	45,400	524	357	1,440	3,780	2,160	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7-46'	06/16/99	10,800	112	69.2	506	1,250	527	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7-51'	06/16/99	24,900	173	136	848	2,140	1,090	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7-61'	06/17/99	25,300	42.3	31.4	588	1,390	271	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8-41'	06/17/99	<50	<0.5	<0.5	0.979	<0.5	32.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8-46'	06/18/99	<50	<0.5	<0.5	<0.5	1.2	137	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8-51'	06/18/99	<50	<0.5	<0.5	0.514	0.611	137	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8-56'	06/18/99	<50	<0.5	<0.5	<0.5	<0.5	7.93	NA	NA	NA	NA	NA	NA	NA	NA	NA
<i>Hydropunch Samples</i>																
G-1	08/11/95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
G-1	10/11/1995	380	61	1	<0.5	2	80	NA	NA	NA	NA	NA	NA	NA	NA	NA
G-2	10/11/1995	14	3	<0.5	<0.5	<0.5	9	NA	NA	NA	NA	NA	NA	NA	NA	NA
G-3	10/11/1995	92,000	11,000	18,000	2,200	11,000	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
G-4	10/11/1995	8,000	46	24	8	28	150	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-01	08/11/95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-01	09/13/95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-02	08/14/95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-03	08/11/95	<50	10	<0.5	<0.5	<0.5	26	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-04	08/14/95	<50	9.2	<0.5	<0.5	4.8	29	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-05	08/11/95	<50	1,300	270	43	350	14,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-05	08/16/95	<50	340	<0.5	<0.5	80	4,800	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-06	08/14/95	<50	7,700	1,100	120	800	67,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-07	08/11/95	<50	3,200	820	740	1,900	14,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-07	09/13/95	<50	2,800	77	280	510	11,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-08	08/11/95	<50	3,000	89	140	230	15,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-08	09/13/95	<50	2,200	61	42	120	8,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-09	08/14/95	<50	<0.5	<0.5	<0.5	0.8	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-09	08/16/95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C-2
 Historical Groundwater Analytical Results
 B&C Gas Mini Mart
 Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	EDC (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	m,p-Xylene (ug/l)	o-Xylene (ug/l)
H-10	08/14/95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-11	08/14/95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-4	03/08/95	<50	57	33	9	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H-5	03/08/95	<50	22	24	8	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B97-1	09/08/97	<50	1.2	<0.50	<0.50	<0.50	60	<0.01	<0.50	NA	NA	NA	NA	NA	NA	NA
B97-2	09/09/97	51	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
B97-3	09/09/97	58	<0.50	<0.50	<0.50	<0.50	46	<0.01	<0.50	NA	NA	NA	NA	NA	NA	NA
B97-4	09/10/97	340	<0.50	0.68	<0.50	<0.50	470	NA	NA	NA	NA	NA	NA	NA	NA	NA
B97-5	09/10/97	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
 ug/l = micrograms per liter
 TPH-G = total petroleum hydrocarbons as gasoline
 MTBE = methyl tertiary-butyl ether
 EDB = 1,2-Dibromoethane
 EDC = 1,2-Dichloroethane
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tert-butyl ether
 TAME = Tert amyl-methyl ether
 TBA = Tert-butyl alcohol
 MS = Mill Springs Park
 NA= not analyzed
 NS= not sampled
 * = well inaccessible
 ** = free product hydrocarbon present
 *** = analytical result from EPA method 8260B
 ND = not detected above reporting limit, limit not available
 < = less than method reporting limit
 R = sample re-analyzed past recommended hold time to correct previous result.
 Some analytical results may not be included in this table, as the results were not available when the data was compiled