



**Transmittal**

**To:** Ms. Eva Chu  
Hazardous Materials Specialist  
Alameda County Environmental  
Health Services  
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Alameda, CA 94502-6577

**From:** Katrin Schliewen  
**Date:** August 25, 2000  
**Proj. No.:** BNC 103

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1	Second Quarter 2000 Groundwater Monitoring Results, B&C Gas Mini Mart, Livermore, California	<input checked="" type="checkbox"/> Regular Mail <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> Other

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2	Mr. Balaji Angle, Angle's AM-PM Mini Mart	<input checked="" type="checkbox"/> Regular Mail
1	Ms. Eva Chu, Alameda County Env. Health Services	<input type="checkbox"/> FedEx
1	Mr. Matt Katen, Alameda County Zone 7	<input type="checkbox"/> Courier
1	Regional Water Quality Control Board, LUFT	<input type="checkbox"/> Other

**SECOND QUARTER 2000  
GROUNDWATER MONITORING RESULTS  
B&C Gas Mini Mart  
Livermore, California**

Prepared by

Conor Pacific  
2650 East Bayshore Road  
Palo Alto, California 94303

August 2000

Project BNC 103

# Conor Pacific

August 25, 2000  
Project No. BNC103

Mr. Balaji Angle  
Angle Enterprises  
5131 Shattuck Avenue  
Oakland, California 94609

Re: Second Quarter 2000 Groundwater Monitoring Results, B&C Gas Mini Mart, 2008 First Street, Livermore, California (Station ID 1689)

Dear Mr. Angle:

Conor Pacific has compiled second quarter 2000 groundwater monitoring results for B&C Gas Mini Mart (B&C), 2008 First Street, Livermore, California (Figure 1). This report includes second quarter 2000 groundwater elevation data, groundwater sampling methods, and results of groundwater chemical analyses. Eight out of the nine wells to be sampled on a quarterly basis were sampled during the second quarter 2000 monitoring.

## SITE INFORMATION

### Site Name & Contact

#### Canada

Vancouver

Victoria

Calgary

Edmonton

Saskatoon

Mississauga

Toronto

Ottawa

Halifax

St. John's

#### U.S.

Richmond

Palo Alto

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

### 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-

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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.<sup>1</sup>

Subsurface work conducted in the B&C area has found predominantly sandy clay, silty sand, silty gravel, and sandy gravel. Over the last eleven years, static water levels have ranged from 68.7 feet bgs (January 1992) to 17.0 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. Table 1 presents historical site groundwater elevations.<sup>2</sup> Table 2 summarizes all B&C monitoring well constructions.

### **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).<sup>3</sup>

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.<sup>4</sup> 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, 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. 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).

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<sup>1</sup> H\*GCL, Inc. Deep Groundwater Conduit Study, Livermore Arcade Shopping Center, First Street and South P Street, Livermore, California. December 6, 1993.

<sup>2</sup> Groundwater elevation and flow direction data from Remediation Service Int'l quarterly reports.

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

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

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).<sup>5</sup> 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 have generally decreased.

### **Interim Remedial Action at Well MW-5**

Floating product was first observed in well MW-5 on July 30, 1998 (Table 2). The well is screened from 15 feet 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. In April 1999, the absorbent sock was raised above the water table. In December 1999, 0.07 feet of free product was measured in well MW-5 and the absorbent sock was replaced in the well. In March and June 2000, no free product was measured or visible in MW-5 and groundwater samples were collected.

### **GROUNDWATER SAMPLING AND ANALYSIS**

Second quarter 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 the second quarter 2000 sampling event, Conor Pacific checked for free product in all site wells. Of the wells which previously have been reported to contain free product (Wells MW-2, MW-5, and MW-6), none contained a measurable thickness of product this quarter. Off-site well (MS)MW-1, located approximately 800 feet downgradient from the B&C site on the Mill Springs Park property, was also checked for product (Figure 1). (MS)MW-1 did not contain a measurable thickness of product although

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

globules of product were observed in the bailer during purging. No sample was collected from (MS)MW-1 during this quarter.

### **Groundwater Elevations**

On June 21, 2000, 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,<sup>6</sup> 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 available groundwater elevations from August 1990 to June 2000. A comparison of well screen elevations (Table 1) and second quarter measurements shows that the water levels were above the well screens in all wells except MW-5, MW-6, MW-9, and (MS)MW-1. The water level in these four wells intercepted the well screen interval at the time of groundwater sampling. A groundwater contour map, based on June 2000 measurements, is shown in Figure 2. Second quarter groundwater elevations are generally two to almost three feet lower than the first quarter 2000. Groundwater flow was generally due west during second quarter 2000. Based on second quarter measurements, the hydraulic gradient is approximately 0.013 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), similar to, although less significant, than in previous quarters. This may be the result of the effects of slower recharge to the deeper, semi-confined aquifer compared with more rapid recharge to the upper water-bearing zone.

### **Sampling Methods**

Conor Pacific sampled 8 monitoring wells on June 21-22, 2000, following Conor Pacific's standard protocol. The remaining wells will be sampled during the regular annual sampling event in the third quarter. Off-site well (MS)MW-1 was not sampled this quarter due to the presence of free product globules observed during well purging. Wells were purged using either a submersible pump or a polyvinyl chloride (PVC) bailer. Samples were collected from each well using a disposable PVC bailer. Field measurements of temperature, pH, dissolved oxygen, turbidity, and electrical conductivity were taken and recorded on water sample field data sheets (Appendix A). All purge water was contained in 55-gallon drums and stored on-site pending proper disposal. Purge water with low hydrocarbon concentrations is pumped to the sanitary sewer under City of Livermore Groundwater Discharge Permit # 1514. All samples were

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

properly stored on the day of sampling. Chain-of-custody documentation accompanied the samples through collection and delivery to the analytical laboratory.

### **Analytical Program**

All groundwater analyses were performed by Sequoia Analytical of Petaluma, California, a state-certified laboratory. All groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by U.S. Environmental Protection Agency (EPA) Method 8015M and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method 8020M. At the request of the ACEHS, the groundwater sample collected from MW-5 was also analyzed by EPA Method 8260B for seven oxygenates including MTBE. Laboratory analyses occurred within specified holding times and within laboratory quality control standards. The certified analytical report is located in Appendix A.

### **Analytical Results**

Over the last five 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. Table 3 presents a historical summary of groundwater analytical results from the B&C site. Second quarter 2000 analytical results for benzene and MTBE are also presented on Figure 3.

### Site Wells

Only one of the five wells located on the B&C Gas Mini Mart property was sampled during the second quarter 2000, namely MW-2. Hydrocarbon concentrations in the groundwater sample collected from MW-2 were lower during this quarter than during all previous sampling events. During this quarter, TPH-G was detected at 5,820 micrograms per liter ( $\mu\text{g/L}$ ), the concentrations of BTEX compounds were respectively 128  $\mu\text{g/L}$ , 94.4  $\mu\text{g/L}$ , 155  $\mu\text{g/L}$ , and 161  $\mu\text{g/L}$ , and the concentration of MTBE was measured at 67.8  $\mu\text{g/L}$ .

### Downgradient Wells

Seven of the eight downgradient wells were sampled during second quarter. In general, hydrocarbon concentrations in groundwater samples collected from these wells during the second quarter 2000 were similar to the previous sampling event, with the notable exception of MW-5 where certain hydrocarbon concentrations were significantly higher this quarter.

Well MW-5, located 75 feet downgradient of the site, was sampled this quarter since no free product was measured in the well. Hydrocarbon concentrations for TPH-G and all BTEX compounds were almost twice as high this quarter as they were during first quarter 2000. However, concentrations generally are significantly below hydrocarbon levels reported in samples collected up to and including September 1999. The

concentration of MTBE in the groundwater sample collected during second quarter 2000 is the lowest reported to date. The MTBE result reported in Table 3 (131 µg/L) was obtained using EPA Method 8260B for oxygenates and differed by more than 40% from the MTBE concentration obtained from EPA Method 8020 (244 µg/L), as noted in the certified analytical report. No other oxygenates analyzed were detected in the groundwater sample collected from well MW-5.

Well MW-7, located on the Mill Springs Park Apartments property approximately 550 feet downgradient from the site, had lower concentrations for TPH-G and xylenes during this quarter. Ethylbenzene was detected at a low concentration (0.875 µg/L) after being not detected during last quarter. The concentration of MTBE was slightly higher this quarter at 4.87 µg/L.

Well MW-8, located on Railroad Avenue at the Bank of America building contained only a low concentration of MTBE (5.56 µg/L) during this quarter, slightly higher than last quarter (4.65 µg/L).

Well MW-10 is located on Railroad Avenue at the Granada Bowling Alley building. No hydrocarbons were detected this quarter, including TPH-G which was detected for the first time last quarter.

Well MW-13, located on Railroad Avenue east of the Bank of America, contained low concentrations of benzene (7.83 µg/L), ethylbenzene (0.732 µg/L), and MTBE (38.8 µg/L). The concentration of benzene this quarter was the highest measured since the first sample was collected in July 1999.

Well (MS)MW-1, located approximately 800 feet downgradient from the B&C site, was not sampled during second quarter 2000 since globules of free product were observed in the PVC bailer during well purging.

No TPH-G, BTEX compounds, or MTBE were detected in downgradient wells MW-12 and D-2. These results are consistent with historical results from these wells.

## **RECOMMENDATIONS**

It is recommended that additional monitoring wells be installed in the upper water-bearing zone north of existing wells MW-5, MW-7, MW-8, and MW-13. These would help define the lateral extent of MTBE, benzene, and TPH-G and be used to monitor possible plume migration towards the north-northwest. Currently, the extent of the plume to the north is poorly defined as seen in Figure 3.

The installation of two monitoring wells (referred to at the time as MW-11, MW-12, and MW-13) to the north of the present plume was proposed originally in a September 1998



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Einarson, Fowler and Watson workplan.<sup>7</sup> As discussed in the November 1999 report summarizing the June-July 1999 drilling, these wells were not installed due to access constraints of properties between Railroad Avenue, the railroad track, North P Street, and North L Street. Negotiations with the City of Livermore and surrounding private property owners will need to be made prior to proposing well locations.

## SUMMARY

The second quarter 2000 groundwater monitoring results are consistent with previous monitoring results. Hydrocarbon concentrations were generally lower or similar to previous sampling events, with the exception of the groundwater sample collected from well MW-5. During the previous quarter, the furthest downgradient hydrocarbon concentration was reported from a sample collected from well MW-10. This quarter no hydrocarbons were detected in MW-10. Third quarter 2000 groundwater monitoring, scheduled for September 2000, is an annual sampling event where all wells, both on-site and off-site will be sampled.

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<sup>7</sup> Einarson, Fowler & Watson. Workplan for Additional Downgradient Investigation, B&C Gas Mini Mart, 2008 First Street, Livermore, California. September 8, 1998.

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August 25, 2000  
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If you have any questions regarding this report, please call us at (650) 843-3828.

Sincerely,  
Conor Pacific

**ORIGINAL SIGNED BY**

Katrin Schliewen  
Project Hydrogeologist

**ORIGINAL SIGNED BY**

Kris H. Johnson, CEG 1763  
Senior Engineering Geologist

**Attachments:**

Tables

- Table 1 - Summary of Groundwater Elevations
- Table 2 - Monitoring Well Constructions
- Table 3 - Historical Groundwater Analytical Results

Figures

- Figure 1 - Site Location
- Figure 2 - Well Locations and Groundwater Contours (June 2000)
- Figure 3 - Groundwater Chemistry (June 2000)

Appendices

- Appendix A - Water Sample Field Data Sheets and Certified Analytical Reports

cc: Eva Chu, Alameda County Environmental Health Services  
Mr. Matt Katen, 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

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  
Summary of 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				
	Feb-97		NM	NM				
	07/30/98		25.90	458.17				
	11/05/98		33.23	450.84				
	03/23/99		25.49	458.58				
	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				
Feb-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				
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				
	Feb-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				

Table 2  
Summary of 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-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		
		Feb-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				
MW-5	481.97	02/29/96	19.35	462.62		
		Feb-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		
MW-6	483.93	02/29/96	20.32	463.61		
		Feb-97	18.92	465.01		
		07/30/98	25.59	458.34	25.58	0.01
		11/05/98	NA	NA		
		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				
MW-7	478.14	7/12/99	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		
MW-8	473.23	7/12/99	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		
MW-9	477.08	7/12/99	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		

Table 2  
Summary of 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	7/12/99	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		
MW-11	464.93	7/12/99	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		
MW-12	458.34	7/12/99	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		
MW-13	474.79	7/12/99	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		
D-1	464.70	7/12/99	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		
D-2	457.61	7/12/99	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		
(MS)MW-1	477.79	07/30/98	30.37	447.42	30.35	0.02
		11/05/98	38.01	439.78	(1)	
		03/23/99	29.44	448.35	(1)	
		06/08/99	31.70	446.09	(1)	
		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				

Notes. Data prior to 1998 from RSI quarterly reports February 1997 date unknown.  
MSL = mean sea level  
NM = not measured; NA = not accessible, blocket at 28.4 feet.  
MS = Mill Springs Park  
(1) - free product visible in purge or sample water  
\* Obstruction in well at 28.6 feet below top of casing

Table 3  
 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)
MW-1	Aug-90	24,000	1,300	1,300	400	2,700	NA
	Oct-91	2,000	430	170	100	290	NA
	Jan-92	1,000	200	120	30	150	NA
	May-93	960	66	8	41	90	NA
	Sep-93	1,900	311	118	34	112	NA
	May-94	10,000	690	1,100	340	1,200	NA
	Aug-94	13,000	290	690	120	670	NA
	Nov-94	19,000	400	770	230	130	NA
	Mar-95	6,000	900	100	980	740	NA
	Jun-95	2,400	210	380	53	280	13,000
	Sep-95	7,800	69	1,300	220	1,200	2,000
	Feb-96	120	4.2	1.4	4.7	5.6	14
	Feb-97	NS*	NS*	NS*	NS*	NS*	NS*
	Jul-98	1,400	26	110	57	243	5
	Nov-98	6,000	230	330	240	1,060	<100
	Mar-99	6,600	280	420	240	990	60
	Jun-99	1,630	70	52	55	138	67
	Dec-99	NS	NS	NS	NS	NS	NS
	Mar-00	300	17.6	14.2	9.89	40.7	7.84
	Jun-00	NS	NS	NS	NS	NS	NS
MW-2	Jun-94	290,000	18,000	36,000	4,600	26,000	NA
	Aug-94	NS**	NS**	NS**	NS**	NS**	NA
	Nov-94	NS**	NS**	NS**	NS**	NS**	NA
	Mar-95	NS**	NS**	NS**	NS**	NS**	NA
	Jun-95	25,000	2,300	3,400	720	3,100	16,000
	Sep-95	NS**	NS**	NS**	NS**	NS**	NS**
	Feb-96	57,000	2,500	650	3,700	3,100	6,500
	Feb-97	20,000	860	1,500	480	1,000	1,300
	Jul-98	NS**	NS**	NS**	NS**	NS**	NS**
	Nov-98	40,000	2,400	2,500	2,100	7,200	1,200
	Mar-99	22,000	780	880	780	1,730	300
	Jun-99	11,200	352	454	540	639	343
	Sep-99	18,000	992	331	901	2,140	225
	Dec-99	19,200	1,340	818	1,050	2,130	579
	Mar-00	6,340	281	184	233	348	90.2
	Jun-00	5,820	128	94.4	155	161	67.8
MW-3	Jun-94	11,000	640	580	270	790	NA
	Aug-94	41,000	1,600	2,300	330	1,800	NA
	Nov-94	18,000	8,000	10,000	900	5,000	NA
	Mar-95	44,000	1,600	1,300	5,000	6,600	NA
	Jun-95	15,000	600	1,900	490	2,600	4,200
	Sep-95	8,000	710	1,100	180	870	2,700
	Feb-96	13,000	260	200	200	1,100	1,500
	Feb-97	11,000	260	550	170	600	900
	Jul-98	25,000	330	1,200	490	1,860	300
	Nov-98	26,000	400	2,100	820	3,600	300
	Mar-99	6,900	100	160	110	265	220
	Jun-99	1,210	5.4	9.0	6.9	4.3	53.3
	Dec-99	NS	NS	NS	NS	NS	NS
	Mar-00	465	4.56	1.87	6.20	7.45	15.5
Jun-00	NS	NS	NS	NS	NS	NS	

Table 3  
 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)
MW-4	Jun-94	810	12	25	<0.5	22	NA
	Aug-94	850	37	51	9.5	35	NA
	Nov-94	1,700	110	110	5.8	58	NA
	Mar-95	1,300	180	8	52	77	NA
	Jun-95	ND	3	1	ND	1	ND
	Sep-95	<50	0.7	<0.5	<0.5	<0.5	<2.5
	Feb-96	87	<0.5	<0.5	<0.5	<0.5	<0.5
	Feb-97	<50	<0.5	<0.5	<0.5	<0.5	2.9
	Jul-98	<50	<0.4	0.6	<0.3	0.8	<5
	Nov-98	<50	0.7	<0.3	<0.3	<0.8	27
	Mar-99	<50	<0.4	<0.3	<0.3	<0.8	<5
	Jun-99	<50	<0.5	<0.5	<0.5	<0.5	<2
	Dec-99	NS	NS	NS	NS	NS	NS
	Mar-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Jun-00	NS	NS	NS	NS	NS	NS
MW-5	Oct-95	120,000	16,000	26,000	3,100	15,000	39,000
	Feb-96	47,000	3,400	4,200	860	4,100	20,000
	Feb-97	28,000	1,300	1,500	480	1,000	2,200
	Jul-98	47,000	1,400	4,000	2,000	8,500	600
	Nov-98	NS**	NS**	NS**	NS**	NS**	NS**
	Mar-99	36,000	1,500	2,400	1,500	5,500	900
	Jun-99	34,500	722	1,980	1,720	7,170	765
	Sep-99	49,100	540	2,500	1,730	8,040	255
	Dec-99	NS**	NS**	NS**	NS**	NS**	NS**
	Mar-00	10,700	217	300	332	1,480	160
	Jun-00	23,000	537	533	1,040	2,590	131***
MW-6	Oct-95	110,000	9,900	22,000	3,200	17,000	47,000
	Feb-96	23,000	2,000	460	2,900	2,600	6,300
	Feb-97	12,000	450	780	200	590	790
	Jul-98	NS**	NS**	NS**	NS**	NS**	NS**
	Nov-98	NS*	NS*	NS*	NS*	NS*	NS*
	Mar-99	5,700	240	260	120	440	150
	Jun-99	7,610	259	334	283	567	275
	Dec-99	NS	NS	NS	NS	NS	NS
	Mar-00	10,100	276	170	200	673	159
	Jun-00	NS	NS	NS	NS	NS	NS
MW-7	Jul-99	5,090	31.9	4.8	60	219	43.6
	Sep-99	2,160	2.8	8.2	5.9	27.3	14.0
	Dec-99	2,630	<2.5	<2.5	13.8	44.9	26.3
	Mar-00	624	<0.5	<0.5	<0.5	1.61	3.87
	Jun-00	435	<0.5	<0.5	0.875	1.28	4.87
MW-8	Jun-99	<50	<0.5	<0.5	<0.5	<0.5	88.5
	Sep-99	<50	<0.5	<0.5	<0.5	<0.5	52
	Dec-99	<50	<0.5	<0.5	<0.5	<0.5	47.3
	Mar-00	<50	<0.5	<0.5	<0.5	<0.5	4.65
	Jun-00	<50	<0.5	<0.5	<0.5	<0.5	5.56
MW-9	Jun-99	<50	<0.5	<0.5	<0.5	<0.5	<2
	Dec-99	NS	NS	NS	NS	NS	NS
	Mar-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Jun-00	NS	NS	NS	NS	NS	NS

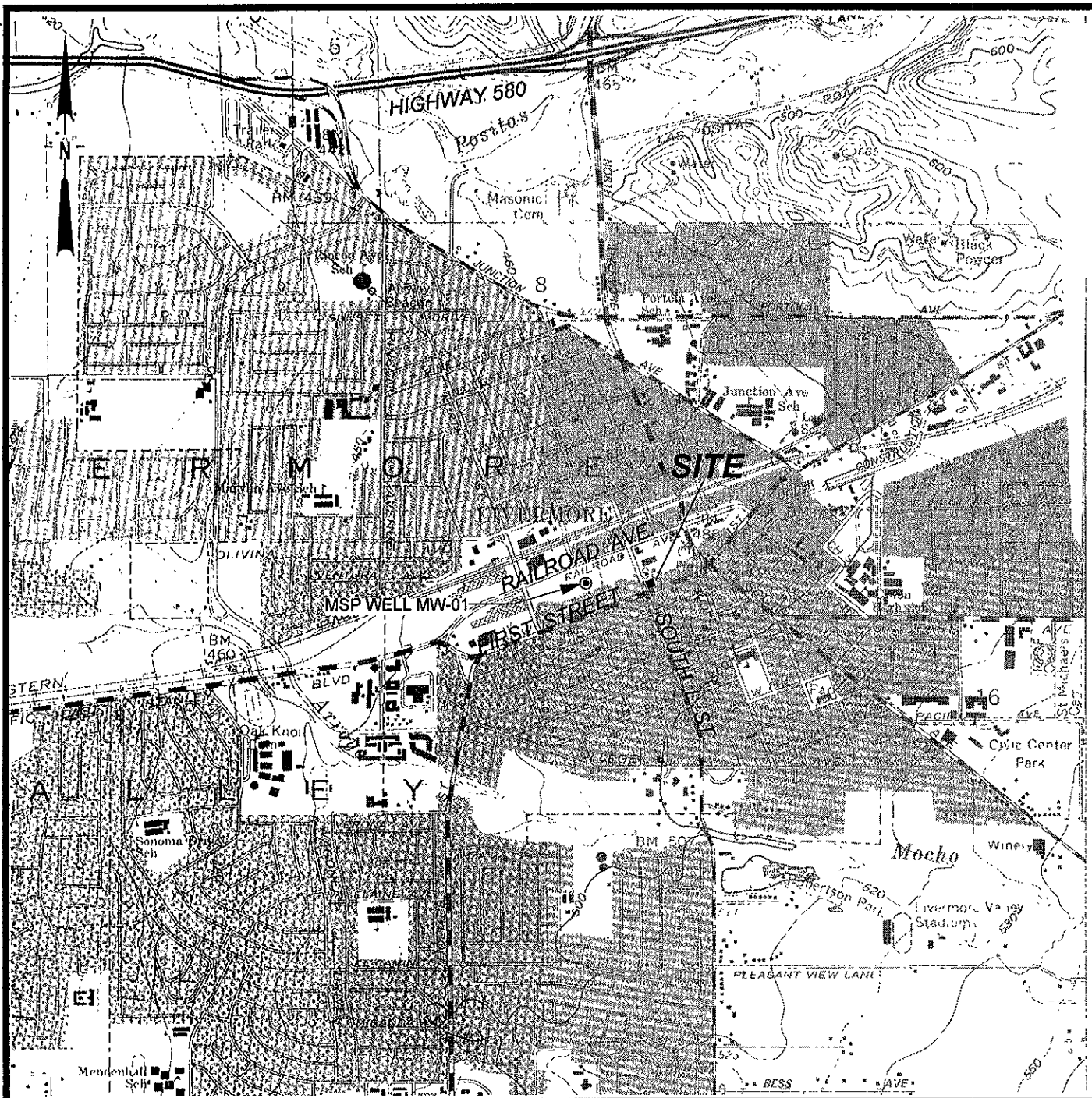


Table 3  
 Historical Groundwater Analytical Results  
 B&C Gas Mini Mart  
 Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)
MW-10	Jun-99	<50	<0.5	<0.5	<0.5	<0.5	<2
	Sep-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Dec-99	<50	<0.5	<0.5	<0.5	<0.5	46.5
	Mar-00	52.7	<0.5	<0.5	<0.5	<0.5	<2.5
	Jun-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-11	Jun-99	91	0.7	2.0	1.1	2.6	<2
	Sep-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Dec-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Mar-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Jun-00	NS	NS	NS	NS	NS	NS
MW-12	Jun-99	<50	<0.5	<0.5	<0.5	<0.5	<2
	Sep-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Dec-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Mar-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Jun-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-13	Jul-99	214	42.8	<0.5	4.5	<0.5	332
	Sep-99	<100	5.8	<1	<1	<1	160
	Dec-99	71	6.7	<0.5	1.4	<0.5	132
	Mar-00	<50	2.32	<0.5	<0.5	<0.5	53.5
	Jun-00	<50	7.83	<0.5	0.732	<0.5	38.8
D-1	Jun-99	<50	<0.5	<0.5	<0.5	<0.5	<2
	Sep-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Dec-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Mar-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Jun-00	NS	NS	NS	NS	NS	NS
D-2	Jun-99	<50	<0.5	<0.5	<0.5	<0.5	<2
	Sep-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Dec-99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Mar-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	Jun-00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
(MS)MW-1	Aug-95	11,000	190	260	110	900	210
	Jul-98	NS**	NS**	NS**	NS**	NS**	NS**
	Nov-98	10,000	260	120	500	1,100	200
	Mar-99	NS**	NS**	NS**	NS**	NS**	NS**
	Jun-99	NS**	NS**	NS**	NS**	NS**	NS**
	Dec-99	661	9.7	3.5	21.7	31.1	7.2
	Mar-00	NS**	NS**	NS**	NS**	NS**	NS**
Jun-00	NS**	NS**	NS**	NS**	NS**	NS**	

ug/l = micrograms per liter  
 TPH-G = total petroleum hydrocarbons as gasoline  
 MTBE = methyl tertiary-butyl ether  
 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



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

SCALE: 0 2,000 4,000 FEET



VBNC103/FIGURES/SITELOC.DSF 4/22/99

**Conor Pacific**



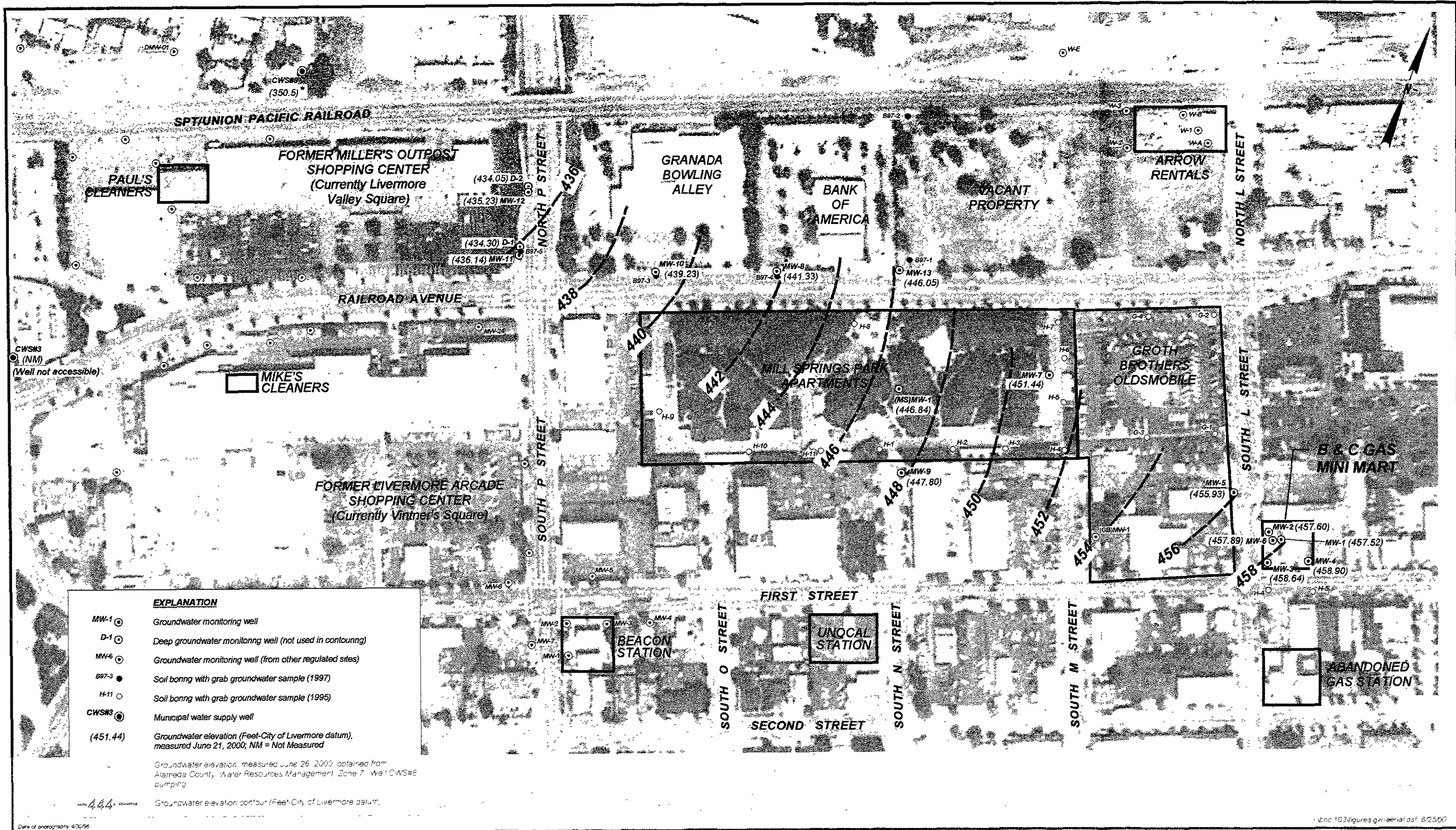
GROUNDWATER MONITORING  
B & C GAS MINI MART  
LIVERMORE, CALIFORNIA

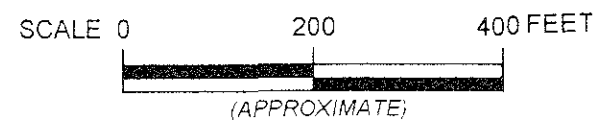
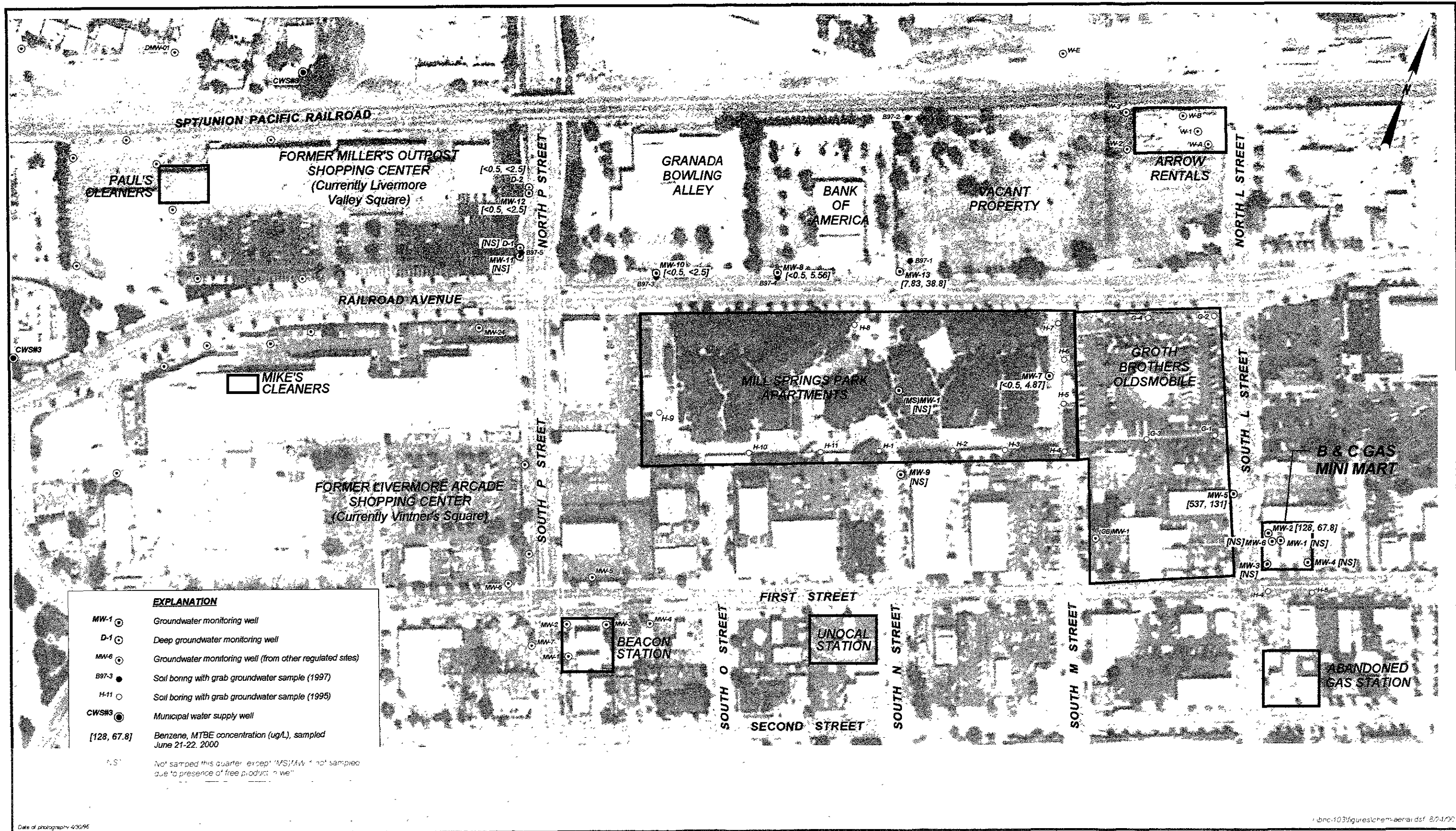
SITE LOCATION MAP

FIGURE

1

PROJECT NO.  
BNC103





GROUNDWATER MONITORING  
 B & C GAS MINI MART  
 LIVERMORE, CALIFORNIA  
 GROUNDWATER CHEMISTRY (JUNE 2000)

FIGURE  
**3**  
 PROJECT NO  
 BNC103

**WATER LEVEL DATA SHEET**

Conor Pacific/EFW

Project: B&C Gas Mini Mart  
 Project No.: BNC103  
 Date(s): 6/21/00  
 Name: R Pink  
 Weather: Sunny, Not Sounder #: 350, KECK

Well	Date (M)	DTF (TOC)	DTW (TOC)	Total Depth	Meas By	Comments
MW-1	1120	ND	26.55	75.3	W	
MW-2	1134		26.26	56.0		
MW-3	1123		25.60	57.5		9/16"
MW-4	1120		26.14	59.9		
MW-5	1003		26.04	39.7		10/16"
MW-6	1131		26.04	(28.6)		obstructed.
MW-7	1219		26.70	49.3		9/16", 0909
MW-8	1230		31.90	53.1		
MW-9	1147		29.20	44.0		
MW-10	1240		32.19	53.9		
MW-11	1322		28.79	49.2		
MW-12	1331		23.11	43.3		
MW-13	1220		28.74	54.4		
D-1	1320		30.40	124.3		
D-2	1335		23.56	111.0		
MS MW01	1150		30.95	NM		9/16"



LOCATION: B & C Gas Mini Mart  
 PROJECT NO: BNC103  
 CLIENT: B & C Gas Mini Mart  
 SAMPLE TYPE: Groundwater P Surface Water \_\_\_\_\_ Leachate \_\_\_\_\_ Treatment System \_\_\_\_\_ Other \_\_\_\_\_  
 CASING DIAMETER (OD-inches): 3/4 \_\_\_\_\_ 1 \_\_\_\_\_ 2 \_\_\_\_\_ 4 P 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): 56.0 Volume in Casing (gal): 6.6 19.7  
 Depth to Water (ft): 26.29 Calculated Purge (volumes / gal.): 19.7  
 Height of Water Column (ft): 29.71 Actual Pre-Sampling Purge (gal): 20.0

**PURGE:**  
 Device (Depth of Intake from TOC): S.S. Bailer \_\_\_\_\_ Teflon Bailer \_\_\_\_\_ PVC Bailer P Disp. Bailer \_\_\_\_\_  
 PVC Hand Pump AS 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>1427</u>	<u>7.0</u>	<u>21.6</u>	<u>980</u>	<u>6.66</u>	<u>lt grey tint</u>	<u>low</u>		
<u>1433</u>	<u>13.5</u>	<u>21.2</u>	<u>1000</u>	<u>6.64</u>	<u>↓</u>	<u>↓</u>		
<u>1437</u>	<u>20.0</u>	<u>20.9</u>	<u>1000</u>	<u>6.70</u>	<u>↓</u>	<u>↓</u>		

Purge Date: 6/22/00

**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
<u>1443</u>	<u>20.8</u>	<u>1020</u>	<u>6.76</u>	<u>1.14</u>	<u>lt grey tint</u>	<u>107</u>	<u>57</u>

Sheen: none Odor: strong Sample Date: 6/22/00

Field Measurement Devices: Horiba P Omega \_\_\_\_\_ QuickCheck \_\_\_\_\_ D.O. Test Kit \_\_\_\_\_  
**REMARKS:** 1 casing volume purge.

SIGNATURE: [Signature] DATE: 6/22/00

# Conor Pacific



## WATER SAMPLE FIELD DATA

LOCATION: Bicc Gasmini Mart SAMPLE ID: MW-5  
 PROJECT NO: BN103 SAMPLED BY: R Park  
 CLIENT: Bicc Gasmini Mart REGULATORY AGENCY: \_\_\_\_\_  
 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): 39.7 Volume in Casing (gal): 3.1 + 9.1  
 Depth to Water (ft): 26.04 Calculated Purge (volumes / gal.): 9.1  
 Height of Water Column (ft): 13.66 Actual Pre-Sampling Purge (gal): 9.5

### 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
1300	3.5	21.5	1030	6.86	lt. gray tint	low		
1302	6.5	20.8	1040	6.85	↓			
1311	9.5	20.7	1040	6.85	↓			

Purge Date: 6/22/00

### SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer \_\_\_\_\_ Teflon Bailer \_\_\_\_\_ PVC Bailer \_\_\_\_\_ Disp. Bailer (35')  
 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
1317	21.1	1050	6.90	1.48	lt. gray	400	

Sheen: none Odor: moderate/strong Sample Date: 6/22/00

Field Measurement Devices: Horiba ✓ Omega \_\_\_\_\_ QuickCheck \_\_\_\_\_ D.O. Test Kit \_\_\_\_\_

REMARKS: 1 casing volume purge.

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SIGNATURE: [Signature] DATE: 6/22/00

# Conor Pacific



## WATER SAMPLE FIELD DATA

LOCATION: B&C Gas Mini Mart SAMPLE ID: MW-7  
 PROJECT NO: BNC 103 SAMPLED BY: R Punk  
 CLIENT: B&C Gas Mini Mart REGULATORY AGENCY: \_\_\_\_\_  
 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): 49.3 Volume in Casing (gal): 3.9  
 Depth to Water (ft): 26.71 Calculated Purge (volumes / gal.): 11.0  
 Height of Water Column (ft): 22.59 Actual Pre-Sampling Purge (gal): 12.0

**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: 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>1200</u>	<u>4.0</u>	<u>20.7</u>	<u>1020</u>	<u>6.97</u>	<u>H. brown</u>	<u>high</u>		
<u>1213</u>	<u>8.0</u>	<u>20.5</u>	<u>1040</u>	<u>6.97</u>	<u>↓</u>	<u>↓</u>		
<u>1220</u>	<u>12.0</u>	<u>20.3</u>	<u>1030</u>	<u>7.05</u>	<u>↓</u>	<u>↓</u>		

Purge Date: 6/22/00

**SAMPLE:**

Device (Depth of Intake from TOC): S.S. Bailer \_\_\_\_\_ Teflon Bailer \_\_\_\_\_ PVC Bailer \_\_\_\_\_ Disp. Bailer (45')  
 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>1234</u>	<u>20.7</u>	<u>1040</u>	<u>7.01</u>	<u>3.33</u>	<u>H. brown</u>	<u>7999</u>	
Sheen: <u>none</u>							
Odor: <u>light</u>							

Sample Date: 6/22/00

Field Measurement Devices: Horiba ✓ Omega \_\_\_\_\_ QuickCheck \_\_\_\_\_ D.O. Test Kit \_\_\_\_\_

**REMARKS:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIGNATURE: [Signature] DATE: 6/22/00



# Conor Pacific



## WATER SAMPLE FIELD DATA

LOCATION: Bic Gas Mini Mart SAMPLE ID: MW-0  
 PROJECT NO: BNE103 SAMPLED BY: R PANK  
 CLIENT: Bic Gas Mini Mart REGULATORY AGENCY: \_\_\_\_\_  
 SAMPLE TYPE: Groundwater ✓ Surface Water \_\_\_\_\_ Leachate \_\_\_\_\_ Treatment System \_\_\_\_\_ Other \_\_\_\_\_  
 CASING DIAMETER (OD-inches): 3/4 \_\_\_\_\_ 1 \_\_\_\_\_ 2.1 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): 53.1 Volume in Casing (gal): 3.7  
 Depth to Water (ft): 31.91 Calculated Purge (volumes / gal.): 10.9  
 Height of Water Column (ft): 21.19 Actual Pre-Sampling Purge (gal): 11.0

**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: 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>1120</u>	<u>4.0</u>	<u>20.0</u>	<u>1030</u>	<u>6.96</u>	<u>light brown</u>	<u>high</u>		
<u>1133</u>	<u>7.5</u>	<u>20.5</u>	<u>1040</u>	<u>6.84</u>	<u>↓</u>	<u>↓</u>		
<u>1136</u>	<u>11.0</u>	<u>20.1</u>	<u>1040</u>	<u>6.89</u>	<u>↓</u>	<u>↓</u>		

Purge Date: 6/22/00

**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>1142</u>	<u>20.6</u>	<u>1050</u>	<u>6.83</u>	<u>1.12</u>	<u>light brown</u>	<u>905</u>	

Sheen: none Odor: none Sample Date: 6/22/00

Field Measurement Devices: Horiba ✓ Omega \_\_\_\_\_ QuickCheck \_\_\_\_\_ D.O. Test Kit \_\_\_\_\_

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIGNATURE: [Signature] DATE: 6/22/00



LOCATION: B3C Gas Mini Mart  
 PROJECT NO: BNC103  
 CLIENT: B3C Gas Mini Mart  
 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)

SAMPLE ID: MW-10  
 SAMPLED BY: R. Pank  
 REGULATORY AGENCY: \_\_\_\_\_

Well Total Depth (ft): 53.9 Volume in Casing (gal): 3.7  
 Depth to Water (ft): 32.19 Calculated Purge (volumes / gal.): 11.1  
 Height of Water Column (ft): 21.71 Actual Pre-Sampling Purge (gal): 11.5

**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
1519	4.0	21.4	920	6.76	lt. brown	high		
1524	8.0	20.3	940	6.79	↓	moderate		
1528	11.5	19.9	930	6.83	↓	↓		

Purge Date: 6/21/00

**SAMPLE:**

Device (Depth of Intake from TOC): S.S. Bailer  Teflon Bailer  PVC Bailer  Disp. Bailer  (49')  
 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
1534	20.4	940	6.71	2.34	lt. brown	243	

Sheen: none Odor: none Sample Date: 6/21/00

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

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIGNATURE: [Signature] DATE: 6/21/00



LOCATION: Bic Gas Mini Mart SAMPLE ID: MW-12  
 PROJECT NO: BNC103 SAMPLED BY: R. Park  
 CLIENT: Bic Gas Mini Mart REGULATORY AGENCY: \_\_\_\_\_  
 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): 43.3 Volume in Casing (gal): 3.5  
 Depth to Water (ft): 23.11 Calculated Purge (volumes / gal.): 10.3  
 Height of Water Column (ft): 20.19 Actual Pre-Sampling Purge (gal): 10.5

**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: Unmixed  
 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
1349	3.5	21.3	930	6.74	lt. brown	high		
1353	7.0	20.7	940	6.76	↓	↓		
1357	10.5	20.2	940	6.85	↓	↓		

Purge Date: 6/21/00

**SAMPLE:**

Device (Depth of Intake from TOC): S.S. Bailer \_\_\_\_\_ Teflon Bailer \_\_\_\_\_ PVC Bailer \_\_\_\_\_ Disp. Bailer (30')  
 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
1403	20.8	950	6.80	5.34	lt. brown	2999	

Sheen: none Odor: none Sample Date: 6/21/00

Field Measurement Devices: Horiba ✓ Omega \_\_\_\_\_ QuickCheck \_\_\_\_\_ D.O. Test Kit \_\_\_\_\_

**REMARKS:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
Calibrated meter 1045, 6/21/00; pH: 7.00, 10.00; EC: 0, 2000; turb: 0; DO: auto; T: 25.2°C

SIGNATURE: [Signature] DATE: 6/21/00

# Conor Pacific



## WATER SAMPLE FIELD DATA

LOCATION: B+C Gas Mini Mart      SAMPLE ID: MW-13  
 PROJECT NO: BNC103      SAMPLED BY: R Park  
 CLIENT: B+C Gas Mini Mart      REGULATORY AGENCY: \_\_\_\_\_  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Leachate \_\_\_\_\_ Treatment System \_\_\_\_\_ Other \_\_\_\_\_  
 CASING DIAMETER (OD-inches): 3/4 \_\_\_\_\_ 1 \_\_\_\_\_ 2 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): 54.4      Volume in Casing (gal): 4.4  
 Depth to Water (ft): 28.74      Calculated Purge (volumes / gal.): 13.1  
 Height of Water Column (ft): 25.66      Actual Pre-Sampling Purge (gal): 13.5

**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
1050	4.5	20.1	1030	6.94	light brown	high		
1055	9.0	19.8	1040	6.94	↓	↓		
1059	13.5	19.6	1050	6.96	↓	↓		

Purge Date: 6/22/00

**SAMPLE:**

Device (Depth of Intake from TOC): S.S. Bailer \_\_\_\_\_ Teflon Bailer \_\_\_\_\_ PVC Bailer \_\_\_\_\_ Disp. Bailer (49')  
 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
1105	19.9	1060	6.95	1.74	light brown	>999	

Sheen: none      Odor: none      Sample Date: 6/22/00

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

REMARKS: \_\_\_\_\_

Calibrated meter 1030, 6/22/00: pH: 7.00, 4.00, EC: 0.2060; turb: 0; DO: auto; T: 24.9°C

SIGNATURE: [Signature]      DATE: 6/22/00

# Conor Pacific



## WATER SAMPLE FIELD DATA

LOCATION: B&C Gas Mini Mart SAMPLE ID: D-2  
 PROJECT NO: BNC103 SAMPLED BY: R Pank  
 CLIENT: B&C Gas Mini Mart REGULATORY AGENCY: \_\_\_\_\_  
 SAMPLE TYPE: Groundwater l Surface Water \_\_\_\_\_ Leachate \_\_\_\_\_ Treatment System \_\_\_\_\_ Other \_\_\_\_\_  
 CASING DIAMETER (OD-inches): 3/4 \_\_\_\_\_ 1 \_\_\_\_\_ 2 l 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): 111.0 Volume in Casing (gal): 15.0  
 Depth to Water (ft): 23.5 Calculated Purge (volumes / gal.): 45.0  
 Height of Water Column (ft): 87.24 Actual Pre-Sampling Purge (gal): 45.0

**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 (95') 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>1419</u>	<u>15.0</u>	<u>21.1</u>	<u>990</u>	<u>7.26</u>	<u>lt. brown</u>	<u>low</u>		
<u>1425</u>	<u>30.0</u>	<u>20.7</u>	<u>990</u>	<u>7.26</u>	<u>lt. brown fml.</u>	<u>↓</u>		
<u>1431</u>	<u>45.0</u>	<u>20.6</u>	<u>990</u>	<u>7.28</u>	<u>↓</u>	<u>↓</u>		

Purge Date: 6/21/00

**SAMPLE:**

Device (Depth of Intake from TOC): S.S. Bailer \_\_\_\_\_ Teflon Bailer \_\_\_\_\_ PVC Bailer \_\_\_\_\_ Disp. Bailer (100')  
 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>1440</u>	<u>20.8</u>	<u>990</u>	<u>7.33</u>	<u>5.00</u>	<u>lt. brown</u>	<u>7999</u>	
Sheen: <u>none</u>							
Odor: <u>none</u>							

Sample Date: 6/21/00

Field Measurement Devices: Horiba l Omega \_\_\_\_\_ QuickCheck \_\_\_\_\_ D.O. Test Kit \_\_\_\_\_

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIGNATURE: [Signature] DATE: 6/21/00

# Conor Pacific



# WATER SAMPLE FIELD DATA

LOCATION: B+C Gas Mini Mart SAMPLE ID: MSMWO1  
 PROJECT NO: BNC 103 SAMPLED BY: R PUNK  
 CLIENT: B+C Gas Mini Mart REGULATORY AGENCY: \_\_\_\_\_  
 SAMPLE TYPE: Groundwater   e   Surface Water \_\_\_\_\_ Leachate \_\_\_\_\_ Treatment System \_\_\_\_\_ Other \_\_\_\_\_  
 CASING DIAMETER (OD-inches): 3/4 \_\_\_\_\_ 1 \_\_\_\_\_ 2   e   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): 59.5 Volume in Casing (gal): 4.9  
 Depth to Water (ft): 30.95 Calculated Purge (volumes / gal.): 14.6  
 Height of Water Column (ft): 28.55 Actual Pre-Sampling Purge (gal): 0.75

**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: None  
 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: 6/21/00

**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: Brown product globules in bailer from 2nd and 3rd bail. End purge. No samples collected.

SIGNATURE: [Signature] DATE: 6/21/00



July 7, 2000

Katrin Schliewen  
Conor Pacific / EFW  
2650 East Bayshore Rd.  
Palo Alto, CA 94303

RE: B&C Gas Mini Mart/P006648

Dear Katrin Schliewen:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 23, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michelle M. Portis  
Project Manager

CA ELAP Certificate Number 2374





Conor Pacific / BFW  
2650 East Bayshore Rd.  
Palo Alto, CA 94303

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

Sampled: 6/21/00 to 6/22/00  
Received: 6/23/00  
Reported: 7/7/00

**ANALYTICAL REPORT FOR P006648**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-2	P006648-01	Water	6/22/00
MW-5	P006648-02	Water	6/22/00
MW-7	P006648-03	Water	6/22/00
MW-8	P006648-04	Water	6/22/00
MW-10	P006648-05	Water	6/21/00
MW-12	P006648-06	Water	6/21/00
MW-13	P006648-07	Water	6/22/00
D-2	P006648-08	Water	6/21/00







Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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Sample Description: **MW-2**  
Laboratory Sample Number: **P006648-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>Sequoia Analytical - Petaluma</u>								
<b>Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M</b>								
Gasoline	0070019	7/5/00	7/5/00		500	5820	ug/l	1
Benzene	"	"	"		5.00	128	"	
Toluene	"	"	"		5.00	94.4	"	
Ethylbenzene	"	"	"		5.00	155	"	
Xylenes (total)	"	"	"		5.00	161	"	
Methyl tert-butyl ether	"	"	"		25.0	67.8	"	2
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		101	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		100	"	





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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Sample Description: **MW-5**  
 Laboratory Sample Number: **P006648-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - Petaluma**

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M**

Gasoline	0070019	7/5/00	7/5/00		1000	23000	ug/l	<u>1</u>
Benzene	"	"	"		10.0	537	"	
Toluene	"	"	"		10.0	533	"	
Ethylbenzene	"	"	"		10.0	1040	"	
Xylenes (total)	"	"	"		10.0	2590	"	
Methyl tert-butyl ether	"	"	"		50.0	244	"	2
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		100	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		96.0	"	

**Volatile Organic Compounds by EPA Method 8260B**

Tert-amyl methyl ether	0060749	7/2/00	7/2/00		200	ND	ug/l	<u>1,3</u>
Tert-butyl alcohol	"	"	"		4000	ND	"	
Di-isopropyl ether	"	"	"		200	ND	"	
1,2-Dibromoethane (EDB)	"	"	"		100	ND	"	
1,2-Dichloroethane	"	"	"		100	ND	"	
Ethanol	"	"	"		20000	ND	"	
Ethyl tert-butyl ether	"	"	"		200	ND	"	
Methyl tert-butyl ether	"	"	"		100	131	"	
Surrogate: Dibromofluoromethane	"	"	"	86.0-118		96.2	%	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	80.0-120		111	"	
Surrogate: Toluene-d8	"	"	"	88.0-110		94.6	"	





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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Sample Description: MW-7  
 Laboratory Sample Number: P006648-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - Petaluma**

<b>Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M</b>								
Gasoline	0070019	7/5/00	7/5/00		50.0	435	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	0.875	"	
Xylenes (total)	"	"	"		0.500	1.28	"	
Methyl tert-butyl ether	"	"	"		2.50	4.87	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		101	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		97.0	"	





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schllewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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Sample Description: **MW-8**  
 Laboratory Sample Number: **P006648-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - Petaluma**

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M**

Gasoline	0070019	7/5/00	7/5/00		50.0	ND	ug/l	<u>1</u>
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
<b>Methyl tert-butyl ether</b>	"	"	"		2.50	<b>5.56</b>	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	65.0-135		101	%	
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"	65.0-135		96.0	"	





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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Sample Description: MW-10  
 Laboratory Sample Number: P006648-05

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - Petaluma

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M

Gasoline	0070051	7/5/00	7/5/00		50.0	ND	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		101	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		89.0	"	





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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**Sample Description:** MW-12  
**Laboratory Sample Number:** P006648-06

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>Sequoia Analytical - Petaluma</u>								
<b>Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M</b>								
Gasoline	0070051	7/5/00	7/5/00		50.0	ND	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		103	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		92.3	"	





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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Sample Description: MW-13  
 Laboratory Sample Number: P006648-07

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - Petaluma

<u>Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M</u>								1
Gasoline	0070019	7/5/00	7/5/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	7.83	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	0.732	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	38.8	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		73.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		97.0	"	





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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**Sample Description: D-2**  
**Laboratory Sample Number: P006648-08**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - Petaluma

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M

Gasoline	0070051	7/5/00	7/5/00		50.0	ND	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		103	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		91.3	"	







Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control  
 Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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<b>Batch: 0070019</b>	<b>Date Prepared: 7/5/00</b>	<b>Extraction Method: EPA 5030 waters</b>								
<b>Blank</b>	<b>0070019-BLK1</b>									
Gasoline Range Organics	7/5/00			ND	ug/l	50.0				
Gasoline	"			ND	"	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	300		305	"	65.0-135	102			
Surrogate: 4-Bromofluorobenzene	"	300		297	"	65.0-135	99.0			

<b>LCS</b>	<b>0070019-BS1</b>									
Benzene	7/5/00	100		90.7	ug/l	65.0-135	90.7			
Toluene	"	100		92.2	"	65.0-135	92.2			
Ethylbenzene	"	100		92.2	"	65.0-135	92.2			
Xylenes (total)	"	300		273	"	65.0-135	91.0			
Methyl tert-butyl ether	"	100		91.7	"	65.0-135	91.7			
Surrogate: a,a,a-Trifluorotoluene	"	300		291	"	65.0-135	97.0			

<b>Matrix Spike</b>	<b>0070019-MS1</b>	<b>P006681-01</b>								
Benzene	7/5/00	100	ND	90.4	ug/l	65.0-135	90.4			
Toluene	"	100	ND	92.0	"	65.0-135	92.0			
Ethylbenzene	"	100	ND	91.8	"	65.0-135	91.8			
Xylenes (total)	"	300	ND	273	"	65.0-135	91.0			
Methyl tert-butyl ether	"	100	7.21	97.3	"	65.0-135	90.1			
Surrogate: a,a,a-Trifluorotoluene	"	300		289	"	65.0-135	96.3			

<b>Matrix Spike Dup</b>	<b>0070019-MSD1</b>	<b>P006681-01</b>								
Benzene	7/5/00	100	ND	89.9	ug/l	65.0-135	89.9	20.0	0.555	
Toluene	"	100	ND	91.5	"	65.0-135	91.5	20.0	0.545	
Ethylbenzene	"	100	ND	91.4	"	65.0-135	91.4	20.0	0.437	
Xylenes (total)	"	300	ND	271	"	65.0-135	90.3	20.0	0.772	
Methyl tert-butyl ether	"	100	7.21	98.3	"	65.0-135	91.1	20.0	1.10	
Surrogate: a,a,a-Trifluorotoluene	"	300		287	"	65.0-135	95.7			

<b>Batch: 0070051</b>	<b>Date Prepared: 7/5/00</b>	<b>Extraction Method: EPA 5030 waters</b>								
<b>Blank</b>	<b>0070051-BLK1</b>									
Gasoline Range Organics	7/5/00			ND	ug/l	50.0				
Gasoline	"			ND	"	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				





Conor Pacific / EFW  
 2650 East Bayshore Rd.  
 Palo Alto, CA 94303

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

Sampled: 6/21/00 to 6/22/00  
 Received: 6/23/00  
 Reported: 7/7/00

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Blank (continued)</b>										
<b>0070051-BLK1</b>										
Ethylbenzene	7/5/00			ND	ug/l	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	300		300	"	65.0-135	100			
Surrogate: 4-Bromofluorobenzene	"	300		280	"	65.0-135	93.3			
<b>LCS</b>										
<b>0070051-BS1</b>										
Benzene	7/5/00	100		98.2	ug/l	65.0-135	98.2			
Xylenes (total)	"	300		293	"	65.0-135	97.7			
Methyl tert-butyl ether	"	100		86.7	"	65.0-135	86.7			
Surrogate: a,a,a-Trifluorotoluene	"	300		305	"	65.0-135	102			
<b>Matrix Spike</b>										
<b>0070051-MS1 P006627-04</b>										
Benzene	7/5/00	100	ND	104	ug/l	65.0-135	104			
Toluene	"	100	ND	105	"	65.0-135	105			
Ethylbenzene	"	100	ND	96.7	"	65.0-135	96.7			
Xylenes (total)	"	300	ND	310	"	65.0-135	103			
Methyl tert-butyl ether	"	100	ND	92.2	"	65.0-135	92.2			
Surrogate: a,a,a-Trifluorotoluene	"	300		303	"	65.0-135	101			
<b>Matrix Spike Dup</b>										
<b>0070051-MSD1 P006627-04</b>										
Benzene	7/5/00	100	ND	100	ug/l	65.0-135	100	20.0	3.92	
Toluene	"	100	ND	101	"	65.0-135	101	20.0	3.88	
Ethylbenzene	"	100	ND	93.6	"	65.0-135	93.6	20.0	3.26	
Xylenes (total)	"	300	ND	299	"	65.0-135	99.7	20.0	3.26	
Methyl tert-butyl ether	"	100	ND	88.8	"	65.0-135	88.8	20.0	3.76	
Surrogate: a,a,a-Trifluorotoluene	"	300		302	"	65.0-135	101			





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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**Volatile Organic Compounds by EPA Method 8260B/Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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**Batch: 0060749**      **Date Prepared: 7/1/00**      **Extraction Method: EPA 5030 waters**

<b>Blank</b> <b>0060749-BLK1</b>										
Tert-amyl methyl ether	7/1/00			ND	ug/l	1.00				
Tert-butyl alcohol	"			ND	"	20.0				
Di-isopropyl ether	"			ND	"	1.00				
1,2-Dibromoethane (EDB)	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
Ethanol	"			ND	"	100				
Ethyl tert-butyl ether	"			ND	"	1.00				
Methyl tert-butyl ether	"			ND	"	0.500				
Surrogate: Dibromofluoromethane	"	5.00		4.54	"	86.0-118	90.8			
Surrogate: 1,2-Dichloroethane-d4	"	5.00		5.18	"	80.0-120	104			
Surrogate: Toluene-d8	"	5.00		4.75	"	88.0-110	95.0			

<b>Blank</b> <b>0060749-BLK2</b>										
Tert-amyl methyl ether	7/2/00			ND	ug/l	1.00				
Tert-butyl alcohol	"			ND	"	20.0				
Di-isopropyl ether	"			ND	"	1.00				
1,2-Dibromoethane (EDB)	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
Ethanol	"			ND	"	100				
Ethyl tert-butyl ether	"			ND	"	1.00				
Methyl tert-butyl ether	"			ND	"	0.500				
Surrogate: Dibromofluoromethane	"	5.00		4.61	"	86.0-118	92.2			
Surrogate: 1,2-Dichloroethane-d4	"	5.00		5.12	"	80.0-120	102			
Surrogate: Toluene-d8	"	5.00		4.91	"	88.0-110	98.2			

<b>LCS</b> <b>0060749-BS1</b>										
Methyl tert-butyl ether	7/1/00	5.00		4.86	ug/l	72.7-119	97.2			
Surrogate: Dibromofluoromethane	"	5.00		4.69	"	86.0-118	93.8			
Surrogate: 1,2-Dichloroethane-d4	"	5.00		5.40	"	80.0-120	108			
Surrogate: Toluene-d8	"	5.00		4.84	"	88.0-110	96.8			

<b>LCS</b> <b>0060749-BS2</b>										
Methyl tert-butyl ether	7/2/00	5.00		4.91	ug/l	72.7-119	98.2			
Surrogate: Dibromofluoromethane	"	5.00		4.70	"	86.0-118	94.0			
Surrogate: 1,2-Dichloroethane-d4	"	5.00		5.19	"	80.0-120	104			
Surrogate: Toluene-d8	"	5.00		4.86	"	88.0-110	97.2			

<b>Matrix Spike</b> <b>0060749-MS1</b> <b>P006681-04</b>										
Methyl tert-butyl ether	7/2/00	5.00	ND	5.15	ug/l	72.7-119	103			
Surrogate: Dibromofluoromethane	"	5.00		5.03	"	86.0-118	101			





Conor Pacific / EFW 2650 East Bayshore Rd. Palo Alto, CA 94303	Project: B&C Gas Mini Mart Project Number: BNC103 Project Manager: Katrin Schliewen	Sampled: 6/21/00 to 6/22/00 Received: 6/23/00 Reported: 7/7/00
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**Volatile Organic Compounds by EPA Method 8260B/Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike (continued)</b>		<b>0060749-MS1</b>	<b>P006681-04</b>							
Surrogate: 1,2-Dichloroethane-d4	7/2/00	5.00		6.01	ug/l	80.0-120	120			
Surrogate: Toluene-d8	"	5.00		4.76	"	88.0-110	95.2			
<b>Matrix Spike Dup</b>		<b>0060749-MSD1</b>	<b>P006681-04</b>							
Methyl tert-butyl ether	7/2/00	5.00	ND	4.99	ug/l	72.7-119	99.8	20.0	3.16	
Surrogate: Dibromofluoromethane	"	5.00		4.94	"	86.0-118	98.8			
Surrogate: 1,2-Dichloroethane-d4	"	5.00		5.78	"	80.0-120	116			
Surrogate: Toluene-d8	"	5.00		4.93	"	88.0-110	98.6			





Conor Pacific / EFW  
2650 East Bayshore Rd.  
Palo Alto, CA 94303

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

Sampled: 6/21/00 to 6/22/00  
Received: 6/23/00  
Reported: 7/7/00

## Notes and Definitions

#	Note
1	The EPA recommended storage temperature of 4 degrees C was exceeded prior to analysis.
2	Results between the primary and confirmation columns varied by greater than 40% RPD.
3	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
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
Recov.	Recovery
RPD	Relative Percent Difference



CONTRACT LABORATORY: Squadra - Petaluma

TURN-AROUND TIME: Standard

PO # \_\_\_\_\_

Project No. BNC103		Site Name B+C Gas Minimart				Analyses					Remarks	
Sampler(s): (printed) R Pan		(signature) <i>[Signature]</i>				<div style="writing-mode: vertical-rl; transform: rotate(180deg);">                     TTHGS, BTEX, MTBE                      EPA 200.4, 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100                 </div>						
Sample I.D.	Lab I.D.	Collection Date   Time		Matrix	Depth							Container Information Type/Volume   Qty   Filt   Prsv.
MW-2		4/21/00	1443	Water		1000648-9	3	N				
MW-5			1317			20	3					
MW-7			1234			3	3					
MW-8			1142			4	3					
MW-10		4/21/00	1534			5	3					
MW-12			1403			6	3					
MW-13		4/21/00	1105			7	3					
D-2		4/21/00	1440			8	3					
M5MW01		no sample					/					

Relinquished by: (signature)  
*[Signature]*

Relinquished by: (signature)  
*[Signature]*

Relinquished by: (signature)  
*[Signature]*

Received by: (signature)  
*[Signature]*

Received by: (signature)  
*[Signature]*

Received by: (signature)  
*[Signature]*

Date/Time:  
6-23 12:05

Date/Time:  
6-23 14:30

Date/Time:

**Send Results To:**  
 Attn: *Katrin Schiewen*  
 EINARSON, FOWLER & WATSON  
 2650 East Bayshore Road  
 Palo Alto, CA 94303  
 Phone (650) 843-3828  
 Fax (650) 843-3815