Brunsing Associates, Inc.

March 3, 2006

Project No. 691

Ms. Joan Fleck
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

**Groundwater Monitoring Report, January 2006**
**505 Santa Rosa Avenue**
**Santa Rosa, California**

Dear Ms. Fleck:

This report presents the results of the groundwater monitoring performed at the Groth Motors site, 505 Santa Rosa Avenue, Santa Rosa, California (Plate 1) by Brunsing Associates, Inc. (BAI). Water level measurements and groundwater sampling were performed on January 17, 2006. This report was prepared to fulfill the monitoring requirements of the North Coast Regional Water Quality Control Board (RWQCB), as outlined in their letter dated December 30, 2002.

**Site History**

A Phase I Environmental Site Assessment (ESA) report was prepared for the site, as part of a real estate sale. The Phase I ESA found evidence that a gasoline station was formerly located at the site in the early 1950's. No records pertaining to the locations of underground storage tanks (USTs) or whether the USTs had been removed from beneath the site were discovered.

Based on the findings of the Phase I ESA, BAI conducted research regarding the adjacent property and performed a limited site investigation. A records review of the adjacent property located at 421 Santa Rosa Avenue (Plate 2) was performed to assess contamination at the 421 Santa Rosa Avenue site. The records review indicated groundwater contamination was present beneath the 421 Santa Rosa Avenue site and that groundwater flowed towards the northwest.

On August 3, 2000, BAI conducted a limited field investigation that included a geophysical survey and excavation of a trench in an area where a "suspicious" object was located during the geophysical survey. The trench was excavated south of the "suspicious" object because of the presence of an underground electrical line. No USTs were observed in the trench, however, petroleum hydrocarbon odors were observed in the soils removed from the trench. A soil sample was collected from the bottom of the trench and analyzed for total petroleum hydrocarbons

*P.O. Box 588, Windsor, CA 95492 Phone: (707) 838-3027 Fax: (707) 838-4420*

(TPH) as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE). TPH as gasoline was reported at 42 milligrams per kilogram (mg/kg), and toluene, ethylbenzene, and xylenes were reported at 14 to 44 micrograms per kilogram (µg/kg).

On May 31, 2001, three USTs and the associated fuel lines were removed by John's Excavating. The USTs did not appear to have any obvious holes, however, one of the USTs was almost full of water. Groundwater was not encountered in the excavation. Ms. Joan Fleck of the RWQCB and a City of Santa Rosa Fire Department official were at the site on May 31, 2001, and based on the field observations and photoionization detector (PID) readings, requested that the area be over-excavated to remove as much of the contaminated soil as practical. One confirmation soil sample was collected from the bottom of the overexcavation and four sidewall soil samples were collected for analyses. Approximately 150 cubic yards of soil were excavated and stored onsite in 2 separate 75 cubic yard stockpiles. One 4-point composite soil sample was collected for analyses from each stockpile. The confirmation and stockpile composite soil samples were analyzed for TPH as gasoline, TPH as diesel, BTEX, and MTBE, and for total lead. The final depth of the excavation was approximately 12 feet below ground surface (bgs). Petroleum hydrocarbons were detected in confirmation soil samples collected from two of the sidewalls and from the bottom of the excavation. The results of the tank removals and over-excavation were presented in the BAI document "UST Removal Activities and Overexcavation", dated July 17, 2001.

Three groundwater monitoring wells (MW-1, MW-2, and MW-3; Plate 2) were installed at the site in April 2002. The well installation and initial groundwater sampling were reported in BAI's "Soil and Groundwater Investigation Report", dated August 13, 2002. A quarterly groundwater monitoring program has been conducted at the site since the installation of monitoring wells MW-1, MW-2, and MW-3.

Between March 15 and 17, 2004, BAI supervised the advancement of four soil borings and installation of two groundwater monitoring wells. Soil borings B-1 through B-3 were drilled on-site and soil boring B-4 and monitoring wells MW-4 and MW-5 were drilled off site (Plate 2). The results of the March 2004 drilling activities and groundwater monitoring event were included in the BAI document "Soil and Groundwater Investigation and Groundwater Monitoring Report", dated July 6, 2004.

Monitoring at the site is being coordinated with the monitoring being performed at 421 Santa Rosa Avenue. With the exception of the January 2005 groundwater level measurements, which were collected by BAI, groundwater level measurements and analytical data for the monitoring wells associated with the 421 Santa Rosa Avenue site (wells designated as CMW) are supplied by Clearwater Group Environmental Services (Clearwater), the consultant for 421 Santa Rosa Avenue site.

**Water-level Measurements**

Depth to water in the onsite monitoring wells (MW-1, MW-2, and MW-3) and off-site monitoring wells (MW-4 and MW-5), as well as Clearwater monitoring wells (CMW-4 and CMW-5), were measured on January 17, 2006 by BAI personnel. Depth to water measurements in monitoring wells associated with the 421 Santa Rosa Avenue site (CMW-1A, CMW-2A, CMW-4, CMW-5, CMW-6, CMW-7, CMW-8, CMW-9, CMW-10, CMW-11, and CMW-12) were independently collected on January 17, 2006 by Clearwater personnel. Based on the data provided by Clearwater and the data collected by BAI personnel, the groundwater elevations and flow directions on January 17, 2006 are depicted on Plate 3.

In the immediate vicinity of the former USTs, the January 17, 2006 predominant groundwater flow direction at 505 Santa Rosa Avenue was approximately to the north. In the vicinity of off-site monitoring wells MW-4 and MW-5, the groundwater flow direction was to the southwest (Plate 3). The predominate groundwater flow direction at the 421 Santa Rosa Avenue site appears to be radial, centered near well CMW-2A (Plate 3). In the northeastern and northwestern portions of the 421 Santa Rosa Avenue site, the flow direction ranged from north to northwest. The flow direction in the area of Sebastopol Avenue ranged from southwest to southeast. The January 17, 2006 calculated gradients for 421 Santa Rosa Avenue ranged from approximately 0.013 to 0.031 foot per foot (ft/ft). The January 17, 2006 calculated gradient for 505 Santa Rosa Avenue was approximately 0.014 ft/ft.

The measured depth to groundwater in the on-site and off-site monitoring wells and off-site Clearwater monitoring wells CMW-4 and CMW-5 have ranged from approximately 2.51 feet below the top of the well casing in December 2002 to approximately 11.45 feet bgs in October 2002. Groundwater flow directions calculated for the 505 Santa Rosa Avenue site have ranged from southwest to north-northwest. Groundwater flow directions calculated for the 421 Santa Rosa Avenue site range widely due to the apparent radial flow. A summary of historical groundwater elevations and approximate flow directions is provided in Table 1.

**Groundwater Sampling**

Monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were sampled on January 17, 2006. The monitoring wells were sampled in accordance with the sampling protocol presented in Appendix A. The groundwater monitoring field reports and sampling logs are provided in Appendix B. The January 17, 2006 groundwater samples collected as part of 505 Santa Rosa Avenue monitoring program were analyzed by BACE Analytical & Field Services (BAFS), a California-certified laboratory. The samples were analyzed for TPH as gasoline, BTEX, petroleum oxygenates, and lead scavengers using EPA Test Method 8260. The analytical results for monitoring wells CMW-4 and CMW-5 were provided by Clearwater Group Environmental Services.

For the January 17, 2006 sampling event, TPH as gasoline was detected in the samples collected from monitoring wells MW-2, MW-3, and MW-5 at reported concentrations of 19, 2.4 and 13 mg/l, respectively (Table 2). The groundwater sample collected from well MW-2 reportedly contained benzene, ethylbenzene, and xylenes at 43.0, 376, and 2,830 µg/l, respectively. Benzene, ethylbenzene, and xylenes were also reported in the monitoring well MW-5 sample at concentrations of 560, 1,204, and 366 µg/l, respectively. The January 2006 groundwater sample collected from well MW-3 contained xylenes at a reported concentration of 10.2 µg/l. None of the analytes tested were detected in the MW-1 and MW-4 groundwater samples. A summary of the groundwater analytical results is provided in Table 2 and the well construction details are provided in Table 3.

As indicated by the data provided by Clearwater Group Environmental Services, TPH as gasoline and BTEX were reported in the CMW-4 groundwater sample. TPH as gasoline, toluene, ethylbenzene, and xylenes were also reported in the CMW-5 groundwater sample. The groundwater sample collected from monitoring well CMW-4 contained TPH as gasoline at 2.4 mg/l and BTEX at concentrations of 290, 19, 64, and 67 µg/l, respectively. The groundwater sample collected from monitoring well CMW-5 contained TPH as gasoline at 3.6 mg/l and toluene, ethylbenzene, and xylenes at concentrations of 4.0, 74, and 140 µg/l, respectively. MTBE was also detected in the groundwater sample collected from well CMW-4 at a concentration of 1.2 µg/l. Furthermore, the Clearwater analytical results indicate groundwater samples collected from monitoring wells CMW-1A, CMW-7, CMW-8, CMW-9, CMW-10, CMW-11, and CMW-12 also contained petroleum hydrocarbon contamination. The highest concentration of TPH as gasoline reported in groundwater samples collected from the 421 Santa Rosa Avenue site was in the sample collected from monitoring well CMW-1A, located near the center of the property. The complete analytical laboratory report for samples collected from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 on January 17, 2006 is provided in Appendix C. The data provided by Clearwater is included in Appendix D.

**Discussion and Recommendations**

The analytical results of the January 2006 groundwater sampling event indicate TPH as gasoline concentrations decreased in wells MW-3 and MW-5 and remained relatively stable in well MW-2 compared to the November 2005 analytical results. Furthermore, the benzene, toluene, and ethylbenzene results reported in the January 2006 MW-2 and MW-5 groundwater samples decreased compared to the November 2005 analytical results. The concentrations of xylenes reported in the January 2006 groundwater samples collected from wells MW-2 and MW-3 increased compared to the November 2005 analytical results. The analytical results for groundwater samples collected from monitoring well MW-1 were reported as non-detect for all analytes tested for the seventh consecutive quarter. No petroleum hydrocarbons have been reported in the MW-4 samples to date, with the exception of xylenes that were reported in September 2004.

**Schedule**

The next quarterly groundwater monitoring event is tentatively scheduled for April 2006. During the April 2006 monitoring event, monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 will be sampled.

Should you have any questions regarding this report, please contact us at (707) 838-3027.

Sincerely,

Steve Silva
Project Geologist

PROFESSIONAL GEOLOGIST
DAVID E. CONLEY
No. 4795
STATE OF CALIFORNIA

David E. Conley, P.G.
Senior Geologist

cc: Ms. Virginia McNett, c/o McNett et al
Ms. Rosemarie Henninger
Mr. Gary Hursh
Mr. John Groth
Mr. Mark McCormick
Mr. Jim Ho

Attachments:

| | |
|---|---|
| Table 1 | Groundwater Elevation Data |
| Table 2 | Groundwater Analytical Results |
| Table 3 | Well Construction Details |
| Plate 1 | Site Vicinity Map |
| Plate 2 | Site Map |
| Plate 3 | Groundwater Flow Map, January 17, 2006 |
| Appendix A | Groundwater Sampling Protocol |
| Appendix B | Groundwater Sampling Field Forms and Logs |
| Appendix C | Analytical Laboratory Report |
| Appendix D | Clearwater Group Environmental Services Data |

# TABLES

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 4/26/2002 | 158.49 | 5.94 | 5.94 | 152.55 | 0.00 | 0.00 | 152.55 | Southwest 0.005 |
| MW-2 | 4/26/2002 | 157.60 | 5.15 | 5.15 | 152.45 | 0.00 | 0.00 | 152.45 | |
| MW-3 | 4/26/2002 | 158.49 | 5.64 | 5.64 | 152.85 | 0.00 | 0.00 | 152.85 | |
| CMW-4 | 4/26/2002 | 156.91 | NM | | | | | | |
| CMW-5 | 4/26/2002 | 157.42 | NM | | | | | | |
| MW-1 | 5/6/2002 | 158.49 | 6.35 | 6.35 | 152.14 | 0.00 | 0.00 | 152.14 | Southwest 0.005 |
| MW-2 | 5/6/2002 | 157.60 | 5.53 | 5.53 | 152.07 | 0.00 | 0.00 | 152.07 | |
| MW-3 | 5/6/2002 | 158.49 | 6.02 | 6.02 | 152.47 | 0.00 | 0.00 | 152.47 | |
| CMW-4 | 5/6/2002 | 156.91 | NM | | | | | | |
| CMW-5 | 5/6/2002 | 157.42 | NM | | | | | | |
| MW-1 | 6/27/2002 | 158.49 | 8.09 | 8.09 | 150.40 | 0.00 | 0.00 | 150.40 | West 0.007 |
| MW-2 | 6/27/2002 | 157.60 | 7.27 | 7.27 | 150.33 | 0.00 | 0.00 | 150.33 | |
| MW-3 | 6/27/2002 | 158.49 | 7.75 | 7.75 | 150.74 | 0.00 | 0.00 | 150.74 | |
| CMW-4 | 6/27/2002 | 156.91 | 7.09 | 7.09 | 149.82 | 0.00 | 0.00 | 149.82 | |
| CMW-5 | 6/27/2002 | 157.42 | 6.95 | 6.95 | 150.47 | 0.00 | 0.00 | 150.47 | |
| MW-1 | 7/30/2002 | 158.49 | 9.33 | 9.33 | 149.16 | 0.00 | 0.00 | 149.16 | West 0.007 |
| MW-2 | 7/30/2002 | 157.60 | 8.47 | 8.47 | 149.13 | 0.00 | 0.00 | 149.13 | |
| MW-3 | 7/30/2002 | 158.49 | 8.93 | 8.93 | 149.56 | 0.00 | 0.00 | 149.56 | |
| CMW-4 | 7/30/2002 | 156.91 | 8.22 | 8.22 | 148.69 | 0.00 | 0.00 | 148.69 | |
| CMW-5 | 7/30/2002 | 157.42 | 8.08 | 8.08 | 149.34 | 0.00 | 0.00 | 149.34 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 8/16/2002 | 158.49 | 9.81 | 9.81 | 148.68 | 0.00 | 0.00 | 148.68 | West-Southwest 0.005 |
| MW-2 | 8/16/2002 | 157.60 | 8.96 | 8.96 | 148.64 | 0.00 | 0.00 | 148.64 | |
| MW-3 | 8/16/2002 | 158.49 | 9.39 | 9.39 | 149.10 | 0.00 | 0.00 | 149.10 | |
| CMW-4 | 8/16/2002 | 156.91 | 8.61 | 8.61 | 148.30 | 0.00 | 0.00 | 148.30 | |
| CMW-5 | 8/16/2002 | 157.42 | 8.49 | 8.49 | 148.93 | 0.00 | 0.00 | 148.93 | |
| MW-1 | 9/10/2002 | 158.49 | 10.35 | 10.35 | 148.14 | 0.00 | 0.00 | 148.14 | Southwest 0.005 |
| MW-2 | 9/10/2002 | 157.60 | 9.41 | 9.41 | 148.19 | 0.00 | 0.00 | 148.19 | |
| MW-3 | 9/10/2002 | 158.49 | 9.82 | 9.82 | 148.67 | 0.00 | 0.00 | 148.67 | |
| CMW-4 | 9/10/2002 | 156.91 | 9.05 | 9.05 | 147.86 | 0.00 | 0.00 | 147.86 | |
| CMW-5 | 9/10/2002 | 157.42 | 8.89 | 8.89 | 148.53 | 0.00 | 0.00 | 148.53 | |
| MW-1 | 10/30/2002 | 158.49 | 11.45 | 11.45 | 147.04 | 0.00 | 0.00 | 147.04 | West-Southwest 0.005 |
| MW-2 | 10/30/2002 | 157.60 | 10.52 | 10.52 | 147.08 | 0.00 | 0.00 | 147.08 | |
| MW-3 | 10/30/2002 | 158.49 | 10.95 | 10.95 | 147.54 | 0.00 | 0.00 | 147.54 | |
| CMW-4 | 10/30/2002 | 156.91 | 10.17[C] | 10.17 | 146.74 | 0.00 | 0.00 | 146.74 | |
| CMW-5 | 10/30/2002 | 157.42 | 10.04[C] | 10.04 | 147.38 | 0.00 | 0.00 | 147.38 | |
| MW-1 | 12/31/2002 | 158.49 | 2.93 | 2.93 | 155.56 | 0.00 | 0.00 | 155.56 | West-Southwest 0.005 |
| MW-2 | 12/31/2002 | 157.60 | 2.51 | 2.51 | 155.09 | 0.00 | 0.00 | 155.09 | |
| MW-3 | 12/31/2002 | 158.49 | 3.10 | 3.10 | 155.39 | 0.00 | 0.00 | 155.39 | |
| CMW-4 | 12/31/2002 | 156.91 | 2.54 | 2.54 | 154.37 | 0.00 | 0.00 | 154.37 | |
| CMW-5 | 12/31/2002 | 157.42 | 2.51 | 2.51 | 154.91 | 0.00 | 0.00 | 154.91 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 1/8/2003 | 158.49 | 4.19 | 4.19 | 154.30 | 0.00 | 0.00 | 154.30 | 505 SRA Northwest 0.007 |
| MW-2 | 1/8/2003 | 157.60 | 3.52 | 3.52 | 154.08 | 0.00 | 0.00 | 154.08 | |
| MW-3 | 1/8/2003 | 158.49 | 4.14 | 4.14 | 154.35 | 0.00 | 0.00 | 154.35 | |
| CMW-1[C] | 1/8/2003 | 159.30 | 5.32 | 5.32 | 153.98 | 0.00 | 0.00 | 153.98 | 421 SRA Northwest 0.019 |
| CMW-2[C] | 1/8/2003 | 158.83 | 5.04 | 5.04 | 153.79 | 0.00 | 0.00 | 153.79 | |
| CMW-4[C] | 1/8/2003 | 156.91 | 3.44 | 3.44 | 153.47 | 0.00 | 0.00 | 153.47 | |
| CMW-5[C] | 1/8/2003 | 157.42 | 3.35 | 3.35 | 154.07 | 0.00 | 0.00 | 154.07 | |
| CMW-6[C] | 1/8/2003 | 158.95 | 4.97 | 4.97 | 153.98 | 0.00 | 0.00 | 153.98 | |
| CMW-7[C] | 1/8/2003 | 159.58 | 7.26 | 7.26 | 152.32 | 0.00 | 0.00 | 152.32 | |
| MW-1 | 2/7/2003 | 158.49 | 4.88 | 4.88 | 153.61 | 0.00 | 0.00 | 153.61 | Northwest 0.005 |
| MW-2 | 2/7/2003 | 157.60 | 4.13 | 4.13 | 153.47 | 0.00 | 0.00 | 153.47 | |
| MW-3 | 2/7/2003 | 158.49 | 4.69 | 4.69 | 153.80 | 0.00 | 0.00 | 153.80 | |
| CMW-4 | 2/7/2003 | 156.91 | 3.90 | 3.90 | 153.01 | 0.00 | 0.00 | 153.01 | |
| CMW-5 | 2/7/2003 | 157.42 | 3.85 | 3.85 | 153.57 | 0.00 | 0.00 | 153.57 | |
| MW-1 | 3/10/2003 | 158.49 | 5.45 | 5.45 | 153.04 | 0.00 | 0.00 | 153.04 | Northwest 0.006 |
| MW-2 | 3/10/2003 | 157.60 | 4.63 | 4.63 | 152.97 | 0.00 | 0.00 | 152.97 | |
| MW-3 | 3/10/2003 | 158.49 | 5.16 | 5.16 | 153.33 | 0.00 | 0.00 | 153.33 | |
| CMW-4 | 3/10/2003 | 156.91 | 4.40 | 4.40 | 152.51 | 0.00 | 0.00 | 152.51 | |
| CMW-5 | 3/10/2003 | 157.42 | 4.38 | 4.38 | 153.04 | 0.00 | 0.00 | 153.04 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 4/9/2003 | 158.49 | 5.27 | 5.27 | 153.22 | 0.00 | 0.00 | 153.22 | 505 SRA North-Northwest 0.010 |
| MW-2 | 4/9/2003 | 157.60 | 4.43 | 4.43 | 153.17 | 0.00 | 0.00 | 153.17 | |
| MW-3 | 4/9/2003 | 158.49 | 4.99 | 4.99 | 153.50 | 0.00 | 0.00 | 153.50 | |
| CMW-1[C] | 4/9/2003 | 159.30 | 6.40 | 6.40 | 152.90 | 0.00 | 0.00 | 152.90 | |
| CMW-2[C] | 4/9/2003 | 158.83 | 6.40 | 6.40 | 152.43 | 0.00 | 0.00 | 152.43 | |
| CMW-4[C] | 4/9/2003 | 156.91 | 4.30 | 4.30 | 152.61 | 0.00 | 0.00 | 152.61 | 421 SRA Northwest 0.026 |
| CMW-5[C] | 4/9/2003 | 157.42 | 4.35 | 4.35 | 153.07 | 0.00 | 0.00 | 153.07 | |
| CMW-6[C] | 4/9/2003 | 158.95 | 6.05 | 6.05 | 152.90 | 0.00 | 0.00 | 152.90 | |
| CMW-7[C] | 4/9/2003 | 159.58 | 8.85 | 8.85 | 150.73 | 0.00 | 0.00 | 150.73 | |
| MW-1 | 7/9/2003 | 158.49 | 7.45 | 7.45 | 151.04 | 0.00 | 0.00 | 151.04 | 505 SRA Northwest 0.009 |
| MW-2 | 7/9/2003 | 157.60 | 6.51 | 6.51 | 151.09 | 0.00 | 0.00 | 151.09 | |
| MW-3 | 7/9/2003 | 158.49 | 7.15 | 7.15 | 151.34 | 0.00 | 0.00 | 151.34 | |
| CMW-1[C] | 7/9/2003 | 159.30 | 7.36 | 7.36 | 151.94 | 0.00 | 0.00 | 151.94 | |
| CMW-2[C] | 7/9/2003 | 158.83 | 8.48 | 8.48 | 150.35 | 0.00 | 0.00 | 150.35 | 421 SRA Northwest 0.042 |
| CMW-4[C] | 7/9/2003 | 156.91 | 6.47 | 6.43 | 150.48 | 0.00 | 0.00 | 150.48 | |
| CMW-5[C] | 7/9/2003 | 157.42 | 6.45 | 6.45 | 150.97 | 0.00 | 0.00 | 150.97 | |
| CMW-6[C] | 7/9/2003 | 158.95 | 8.02 | 8.02 | 150.93 | 0.00 | 0.00 | 150.93 | |
| CMW-7[C] | 7/9/2003 | 159.58 | 10.77 | 10.77 | 148.81 | 0.00 | 0.00 | 148.81 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 10/9/2003 | 158.49 | 10.73 | 10.73 | 147.76 | 0.00 | 0.00 | 147.76 | 505 SRA |
| MW-2 | 10/9/2003 | 157.60 | 9.92 | 9.92 | 147.68 | 0.00 | 0.00 | 147.68 | Northwest |
| MW-3 | 10/9/2003 | 158.49 | 10.31 | 10.31 | 148.18 | 0.00 | 0.00 | 148.18 | 0.008 |
| CMW-1A[C] | 10/9/2003 | 159.30 | 11.22 | 11.22 | 148.08 | 0.00 | 0.00 | 148.08 | |
| CMW-2A[C] | 10/9/2003 | 158.83 | 11.66 | 11.66 | 147.17 | 0.00 | 0.00 | 147.17 | 421 SRA |
| CMW-4[C] | 10/9/2003 | 156.91 | 9.59 | 9.59 | 147.32 | 0.00 | 0.00 | 147.32 | Northwest |
| CMW-5[C] | 10/9/2003 | 157.42 | 9.60 | 9.60 | 147.82 | 0.00 | 0.00 | 147.82 | 0.023 |
| CMW-6[C] | 10/9/2003 | 158.95 | 10.89 | 10.89 | 148.06 | 0.00 | 0.00 | 148.06 | |
| CMW-7[C] | 10/9/2003 | 159.58 | 13.50 | 13.50 | 146.08 | 0.00 | 0.00 | 146.08 | |
| MW-1 | 1/8/2004 | 158.49 | 3.75 | 3.75 | 154.74 | 0.00 | 0.00 | 154.74 | 505 SRA |
| MW-2 | 1/8/2004 | 157.60 | 3.18 | 3.18 | 154.42 | 0.00 | 0.00 | 154.42 | North-northwest |
| MW-3 | 1/8/2004 | 158.49 | 3.85 | 3.85 | 154.64 | 0.00 | 0.00 | 154.64 | 0.097 |
| CMW-1A[C] | 1/8/2004 | 159.30 | 5.00 | 5.00 | 154.30 | 0.00 | 0.00 | 154.30 | |
| CMW-2A[C] | 1/8/2004 | 158.83 | 5.30 | 5.30 | 153.53 | 0.00 | 0.00 | 153.53 | 421 SRA |
| CMW-4[C] | 1/8/2004 | 156.91 | 6.35 | 6.35 | 150.56 | 0.00 | 0.00 | 150.56 | West |
| CMW-5[C] | 1/8/2004 | 157.42 | 6.20 | 6.20 | 151.22 | 0.00 | 0.00 | 151.22 | 0.026 |
| CMW-6[C] | 1/8/2004 | 158.95 | 4.50 | 4.50 | 154.45 | 0.00 | 0.00 | 154.45 | |
| CMW-7[C] | 1/8/2004 | 159.58 | 7.36 | 7.36 | 152.22 | 0.00 | 0.00 | 152.22 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 3/30/2004 | 158.49 | 5.14 | 5.14 | 153.35 | 0.00 | 0.00 | 153.35 | 505 SRA Northwest to Southwest 0.007 to 0.008 |
| MW-2 | 3/30/2004 | 157.60 | 4.33 | 4.33 | 153.27 | 0.00 | 0.00 | 153.27 | |
| MW-3 | 3/30/2004 | 158.49 | 4.90 | 4.90 | 153.59 | 0.00 | 0.00 | 153.59 | |
| MW-4 | 3/30/2004 | 156.49 | 4.35 | 4.35 | 152.14 | 0.00 | 0.00 | 152.14 | |
| MW-5 | 3/30/2004 | 156.77 | 4.17 | 4.17 | 152.60 | 0.00 | 0.00 | 152.60 | |
| CMW-1A[C] | 3/30/2004 | 159.30 | NM | | | | | | |
| CMW-2A[C] | 3/30/004 | 158.83 | NM | | | | | | |
| CMW-4 | 3/30/2004 | 156.91 | 4.10 | 4.10 | 152.81 | 0.00 | 0.00 | 152.81 | |
| CMW-5 | 3/30/2004 | 157.42 | 4.19 | 4.18 | 153.24 | 0.00 | 0.00 | 153.24 | |
| CMW-6[C] | 3/30/2004 | 158.95 | NM | | | | | | |
| CMW-7[C] | 3/30/2004 | 159.58 | NM | | | | | | |
| MW-1 | 4/9/2004 | 158.49 | 5.85 | 5.85 | 152.64 | 0.00 | 0.00 | 152.64 | 505 SRA Northwest to Southwest 0.005 to 0.011 |
| MW-2 | 4/9/2004 | 157.60 | 5.05 | 5.05 | 152.55 | 0.00 | 0.00 | 152.55 | |
| MW-3 | 4/9/2004 | 158.49 | 5.52 | 5.52 | 152.97 | 0.00 | 0.00 | 152.97 | |
| MW-4 | 4/9/2004 | 156.49 | 5.07 | 5.07 | 151.42 | 0.00 | 0.00 | 151.42 | |
| MW-5 | 4/9/2004 | 156.77 | 4.99 | 4.99 | 151.78 | 0.00 | 0.00 | 151.78 | |
| CMW-1A[C] | 4/9/2004 | 159.30 | 6.62 | 6.62 | 152.68 | 0.00 | 0.00 | 152.68 | |
| CMW-2A[C] | 4/9/2004 | 158.83 | 6.63 | 6.63 | 152.20 | 0.00 | 0.00 | 152.20 | 421 SRA North-northwest to Southwest 0.006 |
| CMW-4[C] | 4/9/2004 | 156.91 | 5.06 | 5.06 | 151.85 | 0.00 | 0.00 | 151.85 | |
| CMW-5[C] | 4/9/2004 | 157.42 | 4.98 | 4.98 | 152.44 | 0.00 | 0.00 | 152.44 | |
| CMW-6[C] | 4/9/2004 | 158.95 | 6.42 | 6.42 | 152.53 | 0.00 | 0.00 | 152.53 | |
| CMW-7[C] | 4/9/2004 | 159.58 | NM | | | | | | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 7/9/2004 | 158.49 | 9.37 | 9.37 | 149.12 | 0.00 | 0.00 | 149.12 | 505 SRA Northwest 0.011 |
| MW-2 | 7/9/2004 | 157.60 | 8.51 | 8.51 | 149.09 | 0.00 | 0.00 | 149.09 | |
| MW-3 | 7/9/2004 | 158.49 | 9.06 | 9.06 | 149.43 | 0.00 | 0.00 | 149.43 | |
| MW-4 | 7/9/2004 | 156.49 | 7.84 | 7.84 | 148.65 | 0.00 | 0.00 | 148.65 | |
| MW-5 | 7/9/2004 | 156.77 | 8.55 | 8.55 | 148.22 | 0.00 | 0.00 | 148.22 | |
| CMW-4[D] | 7/9/2004 | 156.91 | 8.36 | 8.36 | 148.55 | 0.00 | 0.00 | 148.55 | |
| CMW-5[D] | 7/9/2004 | 157.42 | 8.37 | 8.37 | 149.05 | 0.00 | 0.00 | 149.05 | |
| CMW-1A[E] | 6/24/2004 | 159.30 | 10.05 | 10.05 | 149.25 | 0.00 | 0.00 | 149.25 | 421 SRA Not Calculated |
| CMW-2A[E] | 6/24/2004 | 158.83 | NM | NM | | | | | |
| CMW-4[E] | 6/24/2004 | 156.91 | 7.75 | 7.75 | 149.16 | 0.00 | 0.00 | 149.16 | |
| CMW-5[E] | 6/24/2004 | 157.42 | 7.85 | 7.85 | 149.57 | 0.00 | 0.00 | 149.57 | |
| CMW-6[E] | 6/24/2004 | 158.95 | 9.33 | 9.33 | 149.62 | 0.00 | 0.00 | 149.62 | |
| CMW-7[E] | 6/24/2004 | 159.58 | 11.91 | 11.91 | 147.67 | 0.00 | 0.00 | 147.67 | |
| MW-1 | 9/16/2004 | 158.49 | 11.05 | 11.05 | 147.44 | 0.00 | 0.00 | 147.44 | 505 SRA Northwest to West 0.009 |
| MW-2 | 9/16/2004 | 157.60 | 10.31 | 10.31 | 147.29 | 0.00 | 0.00 | 147.29 | |
| MW-3 | 9/16/2004 | 158.49 | 10.63 | 10.63 | 147.86 | 0.00 | 0.00 | 147.86 | |
| MW-4 | 9/16/2004 | 156.49 | 9.53 | 9.53 | 146.96 | 0.00 | 0.00 | 146.96 | |
| MW-5 | 9/16/2004 | 156.77 | 10.13 | 10.13 | 146.64 | 0.00 | 0.00 | 146.64 | |
| CMW-1A[E] | 9/16/2004 | 159.30 | 11.67 [F] | 11.67 [F] | 147.63 | 0.00 | 0.00 | 147.63 | 421 SRA Northwest to West 0.023 |
| CMW-2A[E] | 9/16/2004 | 158.83 | 12.07 [F] | 12.07 [F] | 146.76 | 0.00 | 0.00 | 146.76 | |
| CMW-4[E] | 9/16/2004 | 156.91 | 9.94 [F] | 9.94 [F] | 146.97 | 0.00 | 0.00 | 146.97 | |
| CMW-5[E] | 9/16/2004 | 157.42 | 9.91 [F] | 9.91 [F] | 147.51 | 0.00 | 0.00 | 147.51 | |
| CMW-6[E] | 9/16/2004 | 158.95 | 11.18 [F] | 11.18 [F] | 147.77 | 0.00 | 0.00 | 147.77 | |
| CMW-7[E] | 9/16/2004 | 159.58 | 13.87 [F] | 13.87 [F] | 145.71 | 0.00 | 0.00 | 145.71 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 1/13/2005 | 158.49 | 3.40 | 3.40 | 155.09 | 0.00 | 0.00 | 155.09 | 505 SRA Northwest 0.018 |
| MW-2 | 1/13/2005 | 157.60 | 2.93 | 2.93 | 154.67 | 0.00 | 0.00 | 154.67 | |
| MW-3 | 1/13/2005 | 158.49 | 3.67 | 3.67 | 154.82 | 0.00 | 0.00 | 154.82 | |
| MW-4 | 1/13/2005 | 156.49 | 3.31 | 3.31 | 153.18 | 0.00 | 0.00 | 153.18 | |
| MW-5 | 1/13/2005 | 156.77 | 3.40 | 3.40 | 153.37 | 0.00 | 0.00 | 153.37 | |
| CMW-1A[D] | 1/13/2005 | 159.30 | 4.91 | 4.91 | 154.39 | 0.00 | 0.00 | 154.39 | 421 SRA North to West 0.013 to 0.018 |
| CMW-2A[D] | 1/13/2005 | 158.83 | 4.92 | 4.92 | 153.91 | 0.00 | 0.00 | 153.91 | |
| CMW-4[D] | 1/16/2005 | 156.91 | 2.98 | 2.98 | 153.93 | 0.00 | 0.00 | 153.93 | |
| CMW-5[D] | 1/13/2005 | 157.42 | 3.20 | 3.20 | 154.22 | 0.00 | 0.00 | 154.22 | |
| CMW-6[D] | 1/13/2005 | 158.95 | 4.28 | 4.28 | 154.67 | 0.00 | 0.00 | 154.67 | |
| CMW-7[D] | 1/13/2005 | 159.58 | 6.63 | 6.63 | 152.95 | 0.00 | 0.00 | 152.95 | |
| MW-1 | 4/13/2005 | 158.49 | 4.39 | 4.39 | 154.10 | 0.00 | 0.00 | 154.10 | 505 SRA Northwest to southwest 0.011 |
| MW-2 | 4/13/2005 | 157.60 | 3.76 | 3.76 | 153.84 | 0.00 | 0.00 | 153.84 | |
| MW-3 | 4/13/2005 | 158.49 | 4.35 | 4.35 | 154.14 | 0.00 | 0.00 | 154.14 | |
| MW-4 | 4/13/2005 | 156.49 | 4.12 | 4.12 | 152.37 | 0.00 | 0.00 | 152.37 | |
| MW-5 | 4/13/2005 | 156.77 | 3.74 | 3.74 | 153.03 | 0.00 | 0.00 | 153.03 | |
| CMW-1A[E] | 4/13/2005 | 159.30 | 5.73 | 5.73 | 153.57 | 0.00 | 0.00 | 153.57 | 421 SRA Northwest to southwest 0.020 |
| CMW-2A[E] | 4/13/2005 | 158.83 | 5.21 | 5.21 | 153.62 | 0.00 | 0.00 | 153.62 | |
| CMW-4[E] | 4/13/2005 | 156.91 | 3.67 | 3.67 | 153.24 | 0.00 | 0.00 | 153.24 | |
| CMW-5[E] | 4/13/2005 | 157.42 | 3.74 | 3.74 | 153.68 | 0.00 | 0.00 | 153.68 | |
| CMW-6[E] | 4/13/2005 | 158.95 | 5.36 | 5.36 | 153.59 | 0.00 | 0.00 | 153.59 | |
| CMW-7[E] | 4/13/2005 | 159.58 | 7.74 | 7.74 | 151.84 | 0.00 | 0.00 | 151.84 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 7/13/2005 | 158.49 | 6.84 | 6.84 | 151.65 | 0.00 | 0.00 | 151.65 | 505 SRA Northwest 0.005 to 0.009 |
| MW-2 | 7/13/2005 | 157.60 | 6.02 | 6.02 | 151.58 | 0.00 | 0.00 | 151.58 | |
| MW-3 | 7/13/2005 | 158.49 | 6.54 | 6.54 | 151.95 | 0.00 | 0.00 | 151.95 | |
| MW-4 | 7/13/2005 | 156.49 | 5.59 | 5.59 | 150.90 | 0.00 | 0.00 | 150.90 | |
| MW-5 | 7/13/2005 | 156.77 | 6.06 | 6.06 | 150.71 | 0.00 | 0.00 | 150.71 | |
| CMW-1A[C] | 7/13/2005 | 159.30 | 7.79 | 7.79 | 151.51 | 0.00 | 0.00 | 151.51 | 421 SRA Northwest 0.022 |
| CMW-2A[C] | 7/13/2005 | 158.83 | 7.67 | 7.67 | 151.16 | 0.00 | 0.00 | 151.16 | |
| CMW-4[C] | 7/13/2005 | 156.91 | 5.81 | 5.81 | 151.10 | 0.00 | 0.00 | 151.10 | |
| CMW-5[C] | 7/13/2005 | 157.42 | 5.82 | 5.82 | 151.60 | 0.00 | 0.00 | 151.60 | |
| CMW-6[C] | 7/13/2005 | 158.95 | 7.35 | 7.35 | 151.60 | 0.00 | 0.00 | 151.60 | |
| CMW-7[C] | 7/13/2005 | 159.58 | 9.98 | 9.98 | 149.60 | 0.00 | 0.00 | 149.60 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 11/11/2005 | 158.49 | 9.30 | 9.30 | 149.19 | 0.00 | 0.00 | 149.19 | 505 SRA Northwest to Southwest 0.003 to 0.010 |
| MW-2 | 11/11/2005 | 157.60 | 8.43 | 8.43 | 149.17 | 0.00 | 0.00 | 149.17 | |
| MW-3 | 11/11/2005 | 158.49 | 8.89 | 8.89 | 149.60 | 0.00 | 0.00 | 149.60 | |
| MW-4 | 11/11/2005 | 156.49 | 8.05 | 8.05 | 148.44 | 0.00 | 0.00 | 148.44 | |
| MW-5 | 11/11/2005 | 156.77 | 8.00 | 8.00 | 148.77 | 0.00 | 0.00 | 148.77 | |
| CMW-4 | 11/11/2005 | 156.91 | 8.19 | 8.19 | 148.72 | 0.00 | 0.00 | 148.72 | |
| CMW-5 | 11/11/2005 | 157.42 | 8.06 | 8.06 | 149.36 | 0.00 | 0.00 | 149.36 | |
| CMW-1A[C] | 10/28/2005 | 159.30 | 11.01 | 11.01 | 148.29 | 0.00 | 0.00 | 148.29 | 421 SRA Northeast, Northwest to South 0.009 to 0.047 |
| CMW-2A[C] | 10/28/2005 | 158.83 | 11.18 | 11.18 | 147.65 | 0.00 | 0.00 | 147.65 | |
| CMW-4[C] | 10/28/2005 | 156.91 | 9.05 | 9.05 | 147.86 | 0.00 | 0.00 | 147.86 | |
| CMW-5[C] | 10/28/2005 | 157.42 | 8.97 | 8.97 | 148.45 | 0.00 | 0.00 | 148.45 | |
| CMW-6[C] | 10/28/2005 | 158.95 | 12.15 | 12.15 | 146.80 | 0.00 | 0.00 | 146.80 | |
| CMW-7[C] | 10/28/2005 | 159.58 | 12.96 | 12.96 | 146.62 | 0.00 | 0.00 | 146.62 | |
| CMW-8[C] | 10/28/2005 | 159.29 | 12.82 | 12.82 | 146.47 | 0.00 | 0.00 | 146.47 | |
| CMW-9[C] | 10/28/2005 | 158.69 | 12.33 | 12.33 | 146.36 | 0.00 | 0.00 | 146.36 | |
| CMW-10[C] | 10/28/2005 | 159.44 | 12.86 | 12.86 | 146.58 | 0.00 | 0.00 | 146.58 | |
| CMW-11[C] | 10/28/2005 | 158.26 | 9.42 | 9.42 | 148.84 | 0.00 | 0.00 | 148.84 | |
| CMW-12[C] | 10/28/2005 | 158.46 | 10.27 | 10.27 | 148.19 | 0.00 | 0.00 | 148.19 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Measured | Top of Casing Elevation (feet, MSL) | Depth to Fluid/Air Interface (feet) | Depth to Product/Water Interface (feet) | Elevation of Groundwater Uncorrected (feet, MSL) | Floating Product Thickness (feet) | Correction for Free Product (Factor of 0.76) [A] (feet) | Hydraulic Potential [B] (feet, MSL) | Predominant Groundwater Flow Direction and Approximate Gradient (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 1/17/2006 | 158.49 | 3.80 | 3.80 | 154.69 | 0.00 | 0.00 | 154.69 | 505 SRA<br>North<br>0.014 |
| MW-2 | 1/17/2006 | 157.60 | 3.15 | 3.15 | 154.45 | 0.00 | 0.00 | 154.45 | |
| MW-3 | 1/17/2006 | 158.49 | 3.91 | 3.91 | 154.58 | 0.00 | 0.00 | 154.58 | |
| MW-4 | 1/17/2006 | 156.49 | 3.89 | 3.89 | 152.60 | 0.00 | 0.00 | 152.60 | |
| MW-5 | 1/17/2006 | 156.77 | 3.35 | 3.35 | 153.42 | 0.00 | 0.00 | 153.42 | |
| CMW-4 | 1/17/2006 | 156.91 | 3.20 | 3.20 | 153.71 | 0.00 | 0.00 | 153.71 | |
| CMW-5 | 1/17/2006 | 157.42 | 3.28 | 3.28 | 154.14 | 0.00 | 0.00 | 154.14 | |
| CMW-1A[C] | 1/17/2006 | 159.30 | 4.96 | 4.96 | 154.34 | 0.00 | 0.00 | 154.34 | 421 SRA<br>Radial - Centered near well CMW-2A<br>Northwest to Southwest to East<br>0.013 to 0.031 |
| CMW-2A[C] | 1/17/2006 | 158.83 | 3.52 | 3.52 | 155.31 | 0.00 | 0.00 | 155.31 | |
| CMW-4[C] | 1/17/2006 | 156.91 | 3.20 | 3.20 | 153.71 | 0.00 | 0.00 | 153.71 | |
| CMW-5[C] | 1/17/2006 | 157.42 | 3.28 | 3.28 | 154.14 | 0.00 | 0.00 | 154.14 | |
| CMW-6[C] | 1/17/2006 | 158.95 | 4.63 | 4.63 | 154.32 | 0.00 | 0.00 | 154.32 | |
| CMW-7[C] | 1/17/2006 | 159.58 | 6.77 | 6.77 | 152.81 | 0.00 | 0.00 | 152.81 | |
| CMW-8[C] | 1/17/2006 | 159.29 | 6.79 | 6.79 | 152.50 | 0.00 | 0.00 | 152.50 | |
| CMW-9[C] | 1/17/2006 | 158.69 | 6.31 | 6.31 | 152.38 | 0.00 | 0.00 | 152.38 | |
| CMW-10[C] | 1/17/2006 | 159.44 | 6.66 | 6.66 | 152.78 | 0.00 | 0.00 | 152.78 | |
| CMW-11[C] | 1/17/2006 | 158.26 | 3.25 | 3.25 | 155.01 | 0.00 | 0.00 | 155.01 | |
| CMW-12[C] | 1/17/2006 | 158.46 | 4.29 | 4.29 | 154.17 | 0.00 | 0.00 | 154.17 | |

# TABLE 1
## Groundwater Elevation Data
## 505 Santa Rosa Avenue
## Santa Rosa, California

Footnotes:

MSL = mean sea level
ft/ft = foot per foot
SRA = Santa Rosa Avenue
NM = not measured
[A] = Factor is equal to the density of gasoline (0.76 grams per cubic centimeter) divided by the density of groundwater (0.998 grams per cubic centimeter), as measured at the site.
[B] = Hydraulic potential is equal to the floating product thickness times the correction factor (0.76), plus the elevation of groundwater uncorrected.
[C] = Data provided by Clearwater Group Environmental Services (Clearwater)
[D] = Data collected by Brunsing Associates, Inc.
[E] = Data provided electronically by Clearwater Group Environmental Services
[F] = Depth to groundwater for CMW wells corrected by subtracting 1.1 foot from measurment provided by Clearwater (see text in the BAI document "Groundwater Monitoring Report, September 2004", dated November 30, 2004)
Wells CMW-1 through CMW-7 are part of investgation at 421 Santa Rosa Avenue

# TABLE 2
## Groundwater Analytical Results
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Sampled | TPH as Gasoline (mg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Xylenes (µg/l) | MTBE [A] (µg/l) | Depth to Water (feet) |
|---|---|---|---|---|---|---|---|---|
| MW-1 | 4/26/2002 | < 0.05 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 5.94 |
| MW-1 | 7/30/2002 | < 0.05 | < 0.50 | < 0.50 | **1.57** | < 0.50 | < 1.0 | 9.33 |
| MW-1 | 11/5/2002 | < 0.05 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 11.45 |
| MW-1 | 1/8/2003 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 4.19 |
| MW-1 | 4/9/2003 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 5.27 |
| MW-1 | 7/9/2003 | < 0.050 | < 0.50 | < 0.50 | **2.30** | < 0.50 | < 1.0 | 7.45 |
| MW-1 | 10/9/2003 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 10.73 |
| MW-1 [C] | 1/8/2004 | < 0.050 | < 0.30 | < 0.30 | **0.73** | < 0.50 | < 0.50 | 3.75 |
| MW-1 | 3/30/2004 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 5.14 |
| MW-1 | 7/9/2004 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 9.37 |
| MW-1 | 9/16/2004 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 11.05 |
| MW-1 | 1/13/2005 | < 0.05 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 3.40 |
| MW-1 | 4/13/2005 | < 0.050 | < 0.30 | < 0.30 | < 0.50 | < 0.50 | < 0.50 | 4.39 |
| MW-1 | 7/13/2005 | < 0.05 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 6.84 |
| MW-1 | 11/11/2005 | < 0.05 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 9.30 |
| MW-1 | 1/17/2006 | < 0.05 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 3.80 |
| MW-2 | 4/26/2002 | **33** | **186** | **72.5** | **1,100** | **6,680** | < 50 | 5.15 |
| MW-2 | 7/30/2002 | **36** | **134** | < 50 | **1,170** | **5,010** | < 100 | 8.47 |
| MW-2 | 11/5/2002 | **21** | **71.7** | **18.6** | **1,280** | **3,460** | < 20 | 10.53 |
| MW-2 | 1/8/2003 | **20** | **159** | **21.3** | **538** | **4,240** | < 20 | 3.52 |
| MW-2 | 4/9/2003 | **14** | **125** | **19.8** | **607** | **2,590** | < 20 | 4.43 |
| MW-2 | 7/9/2003 | **19** | **130** | **26.3** | **921** | **3,130** | < 20 | 6.51 |
| MW-2 | 10/9/2003 | **23** | **64.6** | **15.2** | **1,220** | **3,900** | < 20 | 9.92 |

# TABLE 2
## Groundwater Analytical Results
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Sampled | TPH as Gasoline (mg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Xylenes (µg/l) | MTBE [A] (µg/l) | Depth to Water (feet) |
|---|---|---|---|---|---|---|---|---|
| MW-2 [C] | 1/8/2004 | < 0.050 | 170 | 32 | 400 | 4,500 | < 50 | 3.18 |
| MW-2 | 3/30/2004 | 11 | 87.3 | 15.3 | 380 | 2,970 | < 20 | 4.33 |
| MW-2 | 7/9/2004 | 13 | 65.7 | 11.5 | 1,140 | 2,950 | < 20 | 8.51 |
| MW-2 | 9/16/2004 | 8.1 | 43.7 | < 10 | 705 | 1,650 | < 20 | 10.31 |
| MW-2 | 1/13/2005 | 11 | 88.6 | < 10 | 590 | 3,100 | < 20 | 2.93 |
| MW-2 | 4/13/2005 | 28 | 110 | < 30 | 1,000 | 3,400 | < 50 | 3.76 |
| MW-2 | 7/13/2005 | 13 | 53.1 | < 10 | 485 | 1,030 | < 20 | 6.02 |
| MW-2 | 11/11/2005 | 18 | 77.6 | 14.3 | 982 | 2,270 | < 20 | 8.43 |
| MW-2 | 1/17/2006 | 19 | 43.0 | < 10 | 376 | 2,830 | < 20 | 3.15 |
| MW-3 | 4/26/2002 | 8.3 | < 25 | < 25 | < 25 | 25.3 | < 50 | 5.64 |
| MW-3 | 7/30/2002 | 17 | < 50 | < 50 | < 50 | < 50 | < 100 | 8.93 |
| MW-3 | 11/5/2002 | 24 | < 10 | < 10 | < 10 | 85.3 | < 20 | 10.95 |
| MW-3 | 1/8/2003 | 5.3 | < 10 | < 10 | < 10 | 34.8 | < 20 | 4.14 |
| MW-3 | 7/9/2003 | 5.2 | < 5.0 | < 5.0 | 6.67 | 25.2 | < 10 | 7.15 |
| MW-3 | 10/9/2003 | 7.5 | < 5.0 | < 5.0 | < 5.0 | <5.0 | < 10 | 10.31 |
| MW-3 [C] | 1/8/2004 | 22 | 180 | 34 | 540 | 5,200 | < 50 | 3.85 |
| MW-3 | 3/30/2004 | 3.0 | < 5.0 | < 5.0 | < 5.0 | 19.6 | < 10 | 4.90 |
| MW-3 | 7/9/2004 | 3.4 | < 5.0 | < 5.0 | 7.47 | 18.2 | < 10 | 9.06 |
| MW-3 | 9/16/2004 | 4.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 10 | 10.63 |
| MW-3 | 1/13/2005 | 1.4 | < 5.0 | < 5.0 | < 5.0 | 9.36 | < 10 | 3.67 |
| MW-3 | 4/13/2005 | 2.1 | < 0.30 | < 0.30 | < 0.50 | < 0.50 | < 0.50 | 4.35 |
| MW-3 | 7/13/2005 | 5.5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 10 | 6.54 |
| MW-3 | 11/11/2005 | 5.6 | < 5.0 | < 5.0 | 5.37 | 8.30 | < 10 | 8.89 |
| MW-3 | 1/17/2006 | 2.4 | < 5.0 | < 5.0 | < 5.0 | 10.2 | < 10 | 3.91 |

# TABLE 2
## Groundwater Analytical Results
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Sampled | TPH as Gasoline (mg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Xylenes (µg/l) | MTBE [A] (µg/l) | Depth to Water (feet) |
|---|---|---|---|---|---|---|---|---|
| MW-4 | 3/30/2004 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 4.35 |
| MW-4 | 7/9/2004 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 [D] | 7.84 |
| MW-4 | 9/16/2004 | < 0.050 | < 0.50 | < 0.50 | < 0.50 | 0.77 | < 1.0 [E] | 9.53 |
| MW-4 | 1/13/2005 | < 0.05 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 3.31 |
| MW-4 | 4/13/2005 | < 0.050 | < 0.30 | < 0.30 | < 0.50 | < 0.50 | < 0.50 [H] | 4.12 |
| MW-4 | 7/13/2005 | < 0.05 | < 0.50 | < 0.530 | < 0.50 | < 0.50 | < 1.0 | 5.59 |
| MW-4 | 11/11/2005 | < 0.05 | < 0.50 | < 0.530 | < 0.50 | < 0.50 | < 1.0 | 8.05 |
| MW-4 | 1/17/2006 | < 0.05 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 3.89 |
| MW-5 | 3/30/2004 | 25 | 1,170 | < 50 | 2,660 | 4,080 | < 100 | 4.17 |
| MW-5 | 7/9/2004 | 53 | 3,650 | < 50 | 6,100 | 4,140 | < 100 | 8.55 |
| MW-5 | 9/16/2004 | 28 | 2,520 | < 50 | 4,710 | 2,990 | < 100 | 10.13 |
| MW-5 | 1/13/2005 | 9.7 | 755 | < 50 | 1,350 | 524 | < 100 | 3.40 |
| MW-5 | 4/13/2005 | 46 | 1,700 | < 30 | 4,600 | 1,100 | < 50 | 3.74 |
| MW-5 | 7/13/2005 | 36 | 1,400 | < 10 | 2,720 | 547 | < 20 | 6.06 |
| MW-5 | 11/11/2005 | 25 | 1,490 | 13.4 | 2,760 | 1,020 | < 20 | 8.00 |
| MW-5 | 1/17/2006 | 13 | 560 | < 10 | 1,204 | 366 | < 20 | 3.35 |
| CMW-4 [B] | 4/26/2002 | 14 | 1,400 | 200 | 450 | 1,000 | 0.95 | 5.03 |
| CMW-4 [B] | 7/30/2002 | 16 | 2,800 | 180 | 390 | 1,100 | 0.1 | 8.26 |
| CMW-4 [B] | 11/5/2002 | 12 | 2,700 | 45 | 150 | 87 | < 10 | 10.17 |
| CMW-4 [B] | 1/8/2003 | 3.9 | 570 | 47 | 120 | 240 | < 2.5 | 3.44 |
| CMW-4 [B] | 4/9/2003 | 12 | 1,100 | 95 | 290 | 460 | < 5.0 | 4.30 |
| CMW-4 [B] | 7/9/2003 | 14 | 1,600 | 93 | 290 | 480 | < 10 | 6.47 |
| CMW-4 [B] | 10/9/2003 | 12 | 2,300 | 49 | 180 | 170 | < 5.0 | 9.59 |

# TABLE 2
## Groundwater Analytical Results
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Sampled | TPH as Gasoline (mg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Xylenes (µg/l) | MTBE [A] (µg/l) | Depth to Water (feet) |
|---|---|---|---|---|---|---|---|---|
| CMW-4 [B] | 1/8/2004 | 4.4 | 570 | 39 | 120 | 210 | < 3.0 | 6.35 |
| CMW-4 [B] | 4/9/2004 | 11 | 1,700 | 97 | 270 | 500 | < 2.5 | 5.06 |
| CMW-4 [B] | 6/24/2004 | 8.5 | 1,500 | 52 | 160 | 220 | < 5.0 | 7.75 |
| CMW-4 [B] | 9/16/2004 | 8.5 | 1,700 | 28 | 79 | 68 | < 5.0 [G] | 9.94 [F] |
| CMW-4 [B] | 1/13/2005 | 2.9 | 330 | 17 | 60 | 88 | 1.4 | 2.98 |
| CMW-4 [B] | 4/13/2005 | 4.1 | 680 | 34 | 85 | 71 | 1.3 | 3.67 |
| CMW-4 [B] | 7/13/2005 | 11 | 960 | 38 | 220 | 140 | < 1.5 | 5.81 |
| CMW-4 [B] | 10/28/2005 | 11 | 1,200 | 32 | 99 | 82 | < 2.5 | 9.05 |
| CMW-4 [B] | 1/17/2006 | 2.4 | 290 | 19 | 64 | 67 | 1.2 | 3.20 |
| CMW-5 [B] | 4/26/2002 | 6.5 | 16 | 29 | 160 | 530 | < 2.0 | 4.93 |
| CMW-5 [B] | 7/30/2002 | 4.3 | 38 | 10 | 120 | 250 | < 1.0 | 8.13 |
| CMW-5 [B] | 11/5/2002 | 3.8 | 130 | 8.4 | 60 | 80 | 0.81 | 10.04 |
| CMW-5 [B] | 1/8/2003 | 6.0 | 9.8 | 24 | 130 | 410 | < 1.0 | 3.35 |
| CMW-5 [B] | 4/9/2003 | 12 | < 5.0 | 24 | 310 | 1,000 | < 5.0 | 4.35 |
| CMW-5 [B] | 7/9/2003 | 3.2 | 31 | 5.9 | 35 | 50 | < 0.50 | 6.45 |
| CMW-5 [B] | 10/9/2003 | 3.1 | 40 | 4.6 | 22 | 36 | 0.90 | 9.60 |
| CMW-5 [B] | 1/8/2004 | 4.6 | 4 | 12.0 | 100 | 270 | 0.51 | 6.20 |
| CMW-5 [B] | 4/9/2004 | 3.7 | 8.2 | 5.3 | 22 | 34 | 0.53 | 4.98 |
| CMW-5 [B] | 6/24/2004 | 3.9 | 14.0 | 4.2 | 44 | 85 | 0.86 | 7.85 |
| CMW-5 [B] | 9/16/2004 | 2.3 | 19.0 | 2.4 | 8 | 12 | 0.97 [G] | 9.91 [F] |
| CMW-5 [B] | 1/13/2005 | 2.4 | 0.5 | 2.8 | 32 | 68 | < 0.50 | 3.20 |
| CMW-5 [B] | 4/13/2005 | 3.5 | 0.95 | 2.0 | 51 | 100 | < 0.50 | 3.74 |
| CMW-5 [B] | 7/13/2005 | 7.4 | 2.0 | 5.1 | 140 | 220 | < 0.50 | 5.82 |
| CMW-5 [B] | 10/28/2005 | 2.4 | 2.7 | 2.4 | 10 | 8.1 | 0.56 | 8.97 |
| CMW-5 [B] | 1/17/2006 | 3.6 | < 0.50 | 4.0 | 74 | 140 | < 0.50 | 3.28 |

# TABLE 2
## Groundwater Analytical Results
## 505 Santa Rosa Avenue
## Santa Rosa, California

**NOTES:**

mg/l = milligrams per liter

µg/l = micrograms per

Less than symbol (<) indicates not detected at given laboratory reporting limit

[A] = Sample analyzed for petroleum oxygenates and lead scavengers using EPA Test Method 8260B with the exception of samples collected from wells CMW-4 and CMW-5. All analytes detected are listed.

[B] = Data for wells CMW-4 and CMW-5 provided by Clearwater Group Environmental Services.

[C] = Reported analytical results for groundwater samples collected on 1/8/2004 from wells MW-1, MW-2, and MW-3 may not be accurate due to possible mislabling and/or sample carryover

[D] = Di-isopropyl ether (DIPE) reported at 1.50 µg/l

[E] = Di-isopropyl ether (DIPE) reported at 2.23 µg/l

[F] = Depth to groundwater for CMW wells corrected by 1.1 foot (see text in the BAI document "Groundwater Monitoring Report, September 2004", dated November 12, 2004)

[G] = Clearwater September 2004 groundwater samples analyzed for petroleum oxygenates and lead scavengers using EPA Test Method 8260

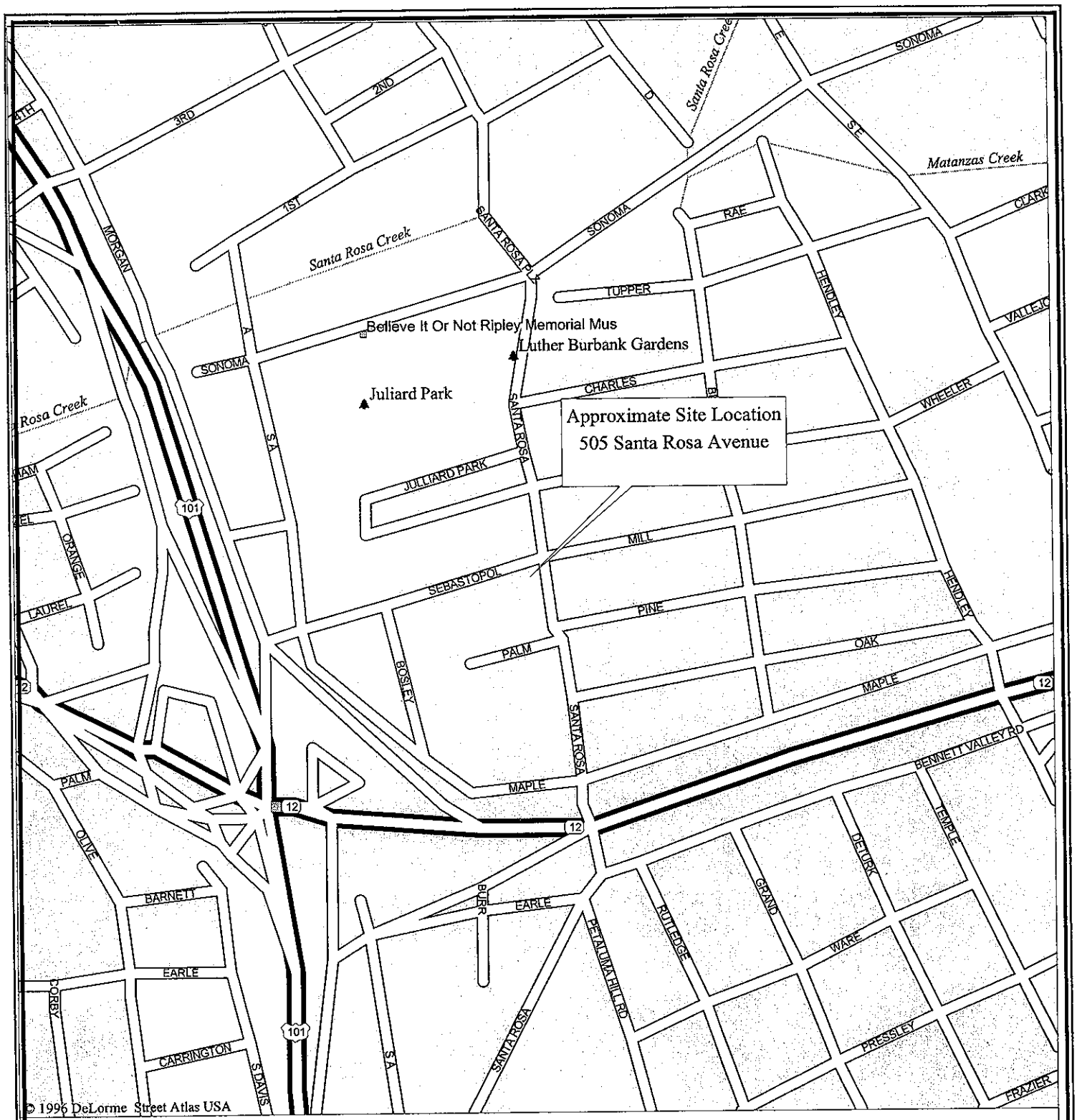
[H] = Di-isopropyl ether (DIPE) reported at 2.4 µg/l

# TABLE 3
## Well Construction Details
## 505 Santa Rosa Avenue
## Santa Rosa, California

| Well Number | Date Installed | Installed by | Borehole Diameter (inches) | Total Borehole Depth (feet, bgs) | Screened Interval (feet, bgs) | Total Well Depth (feet, bgs) | Casing Diameter (inches) | Screen Slot Size (inches) | PVC Casing Elevation (feet, MSL) | Existing or Abandoned |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 4/15/2002 | BAI | 8 | 20 | 5 to 20 | 20 | 2 | 0.010 | 158.49 | Existing |
| MW-2 | 4/15/2002 | BAI | 8 | 20 | 5 to 20 | 20 | 2 | 0.010 | 157.60 | Existing |
| MW-3 | 4/15/2002 | BAI | 8 | 20 | 5 to 20 | 20 | 2 | 0.010 | 158.49 | Existing |
| MW-4 | 3/16/2004 | BAI | 8 | 15 | 5 to 15 | 15 | 2 | 0.010 | 156.49 | Existing |
| MW-5 | 3/16/2004 | BAI | 8 | 15 | 5 to 15 | 15 | 2 | 0.010 | 156.77 | Existing |

BAI = Brunsing Associates, Inc.
MSL = mean sea level
bgs = below ground surface

# PLATES




Mag 16.00
Fri Feb 20 13:34 2004

Scale 1:6,250 (at center)
500 Feet
200 Meters

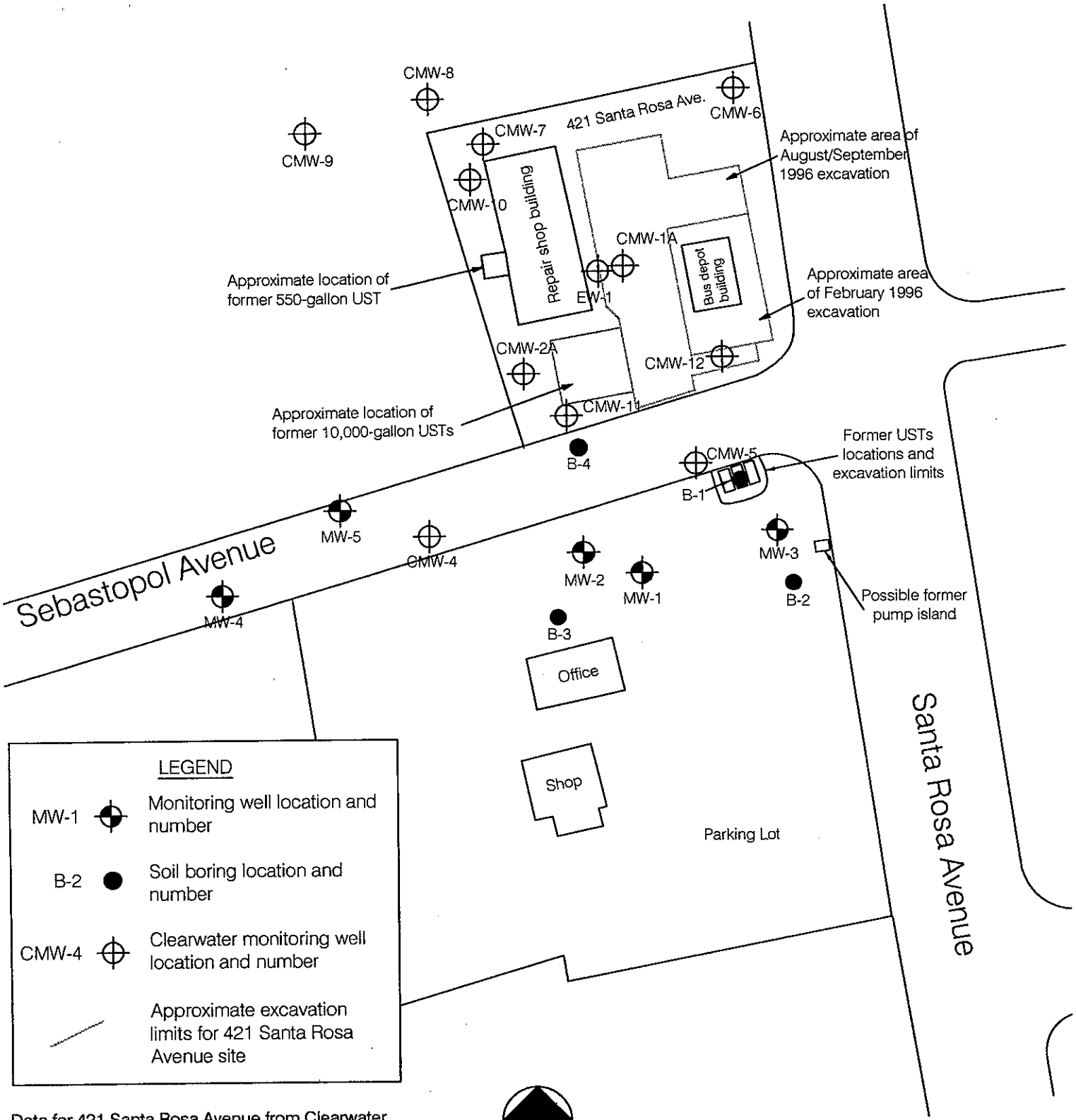
Secondary SR/Road/Hwy Ramp
Interstate/Limited Access
Point of Interest

NORTH

| | | |
|---|---|---|
| PROJECT NO.: 691 | | |
| DRAWN BY: | SMS | 2/20/04 |
| CHECKED BY: | | |
| APPROVED BY: | DMP | 7/6/04 |
| REVISED: | | |

**Brunsing Associates, Inc.**
**P.O. Box 588**
**Windsor, California 95492**

**PLATE 1**
**Site Vicinity Map**
505 Santa Rosa Avenue
Santa Rosa, California




Data for 421 Santa Rosa Avenue from Clearwater Group report dated September 20, 2005

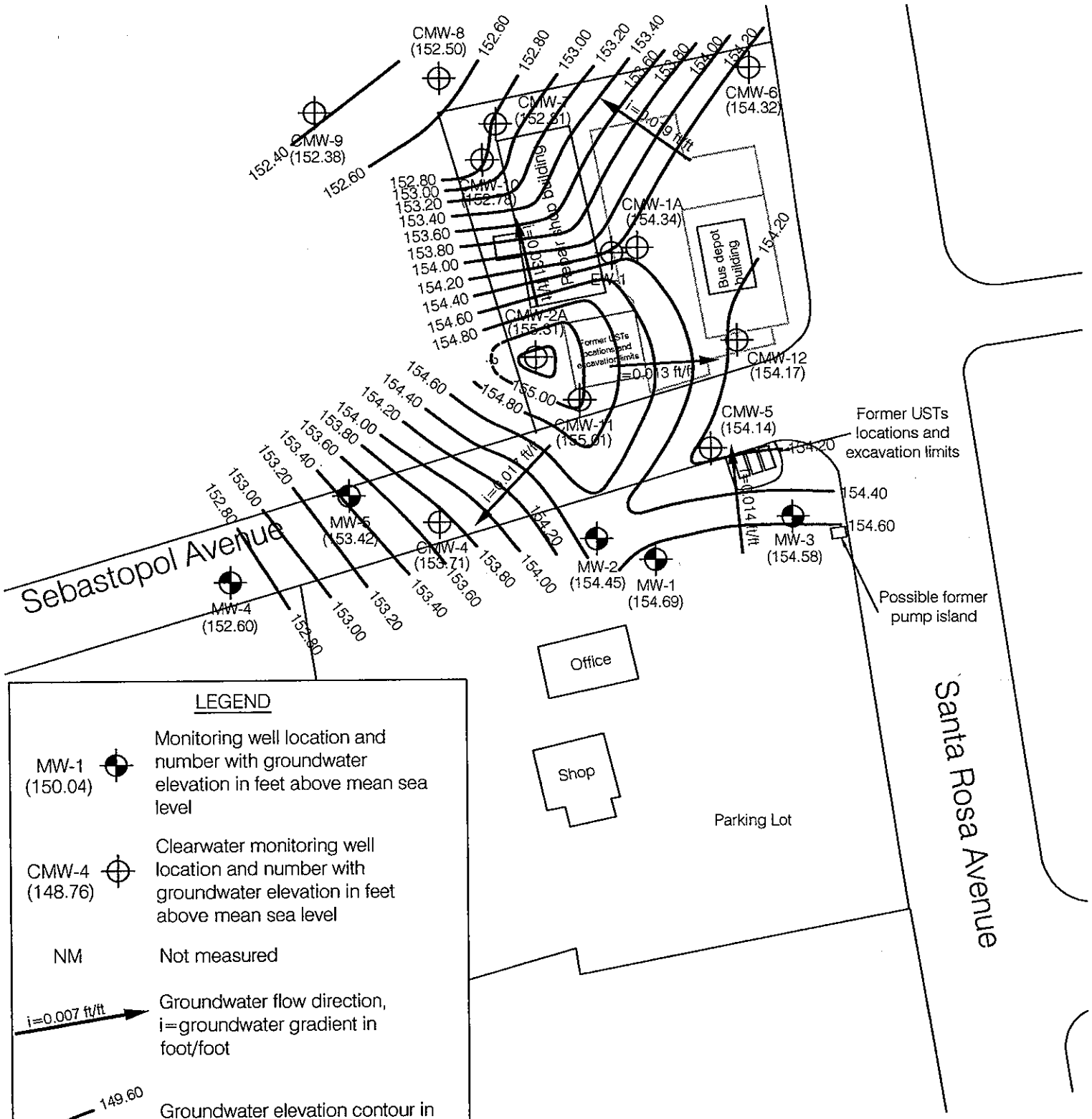
Reference:
Ray Carlson & Associates, June 4, 2004

Brunsing Associates, Inc.
5468 Skylane Blvd., Suite 201
Santa Rosa, California 95403
Tel: (707) 838-3027

Job No.: 691
Appr.:
Date: 12/15/05

**SITE MAP**
505 Santa Rosa Avenue
Santa Rosa, California

PLATE
2




LEGEND

| | |
|---|---|
| MW-1 (150.04) | Monitoring well location and number with groundwater elevation in feet above mean sea level |
| CMW-4 (148.76) | Clearwater monitoring well location and number with groundwater elevation in feet above mean sea level |
| NM | Not measured |
| i=0.007 ft/ft | Groundwater flow direction, i=groundwater gradient in foot/foot |
| 149.60 | Groundwater elevation contour in feet above mean sea level |

Reference:
Clearwater well locations and data from Clearwater Environmental Services.

Ray Carlson & Associates, June 4, 2004

Brunsing Associates, Inc.
5468 Skylane Blvd., Suite 201
Santa Rosa, California 95403
Tel: (707) 838-3027

Job No.: 691
Appr.:
Date: 2/14/06

GROUNDWATER FLOW MAP
JANUARY 17, 2006
505 Santa Rosa Avenue
Santa Rosa, California

PLATE
3

# APPENDIX A

## Groundwater Sampling Protocol

# Groundwater Sampling Protocol

## Monitoring Wells

Prior to purging a monitoring well, groundwater levels are measured with a Solinst electric depth measurement device, or an interface probe, in all wells that are to be measured. At sites where petroleum hydrocarbons are possible contaminants, the well is checked for floating product using a clear bailer, a steel tape with water/oil paste, or an interface probe, during the initial sampling round. If floating product is measured during the initial sampling round or noted during subsequent sampling rounds, floating product measurements are continued.

After the water level and floating product measurements are complete, the monitoring well is purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water become relatively stabile. If the well is purged dry, groundwater samples are collected after the water level in the well recovers to at least 80 percent of the original water column measured in the well prior to sampling, or following a maximum recovery period of two hours. The well is purged using a factory-sealed, disposable, polyethylene bailer, a four-inch diameter submersible Grundfos pump, a two-inch diameter ES-40 purge pump, or a peristaltic pump. The purge water is stored on-site in clean, 55-gallon drums.

A groundwater sample is collected from each monitoring well following re-equilibration of the well after purging. The groundwater sample is collected using a factory-sealed disposable, polyethylene bailer with a sampling port, or a factory-sealed Teflon bailer. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the polyethylene bailer sampling port when collecting samples to be analyzed for VOCs. The groundwater sample is transferred from the bailer into sample container(s) that are obtained directly from the analytical laboratory.

The sample container(s) is labeled with a self-adhesive tag. The following information is included on the tag:

- Project number
- Sample number
- Date and time sample is collected
- Initials of sample collector(s).

Individual log sheets are maintained throughout the sampling operations. The following information is recorded:

- Sample number
- Date and time well sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

Following collection of the groundwater sample, the sample is immediately stored on blue ice in an appropriate container. A chain-of-custody form is completed with the following information:

- Date the sample was collected
- Sample number and the number of containers
- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the chain-of-custody form accompanies the sample containers to a California-certified laboratory. A copy is retained by BAI and placed in company files.

Sampling equipment including thermometers, pH electrodes, and conductivity probes are cleaned both before and after their use at the site. The following cleaning procedures are used:

- Wash with a potable water and detergent solution or other solutions deemed appropriate
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.

In addition, the pumps are cleaned by pumping a potable water and detergent solution and deionized water through the system. Cleaning solutions are contained on-site in clean 55-gallon drums.

**Domestic and Irrigation Wells**

Groundwater samples collected from domestic or irrigation wells are collected from the spigot that is the closest to the well. Prior to collecting the sample, the spigot is allowed to flow for at least 5 minutes to purge the well. The sample is then collected directly into laboratory-supplied containers, sealed, labeled, and stored on blue ice in an appropriate container, as described above. A chain-of-custody form is completed and submitted with the samples to the analytical laboratory.

# APPENDIX B

## Groundwater Sampling Field Forms and Logs

Brunsing Associates, Inc

UST Fund Site: X Yes ____ No

# FIELD REPORT

PAGE ____ OF ____

JOB NO: 691
INITIAL: GL
DATE: 1/17/06

PROJECT: Groth Motors - 505 Santa Rosa Ave, Santa Rosa, CA
SUBJECT: GW Sampling
PROJECT PHASE NUMBER: 04
VEHICLE USED: 2003 CHevy

Total Time: 6.5
End. Mileage: 48612
Beg. Mileage: 48594
TOTAL MILEAGE: 18

| TIME | DESCRIPTION OF WORK AND CONVERSATION RECORD: |
|---|---|
| 853 | Arrived on site |
| | Measured Two Rounds of DTW on wells, MW-1, 2, 3, 4, 5, CMW-4 + 5 |
| | Performed GW Sampling on wells MW-1, 2, 3, 4 + 5 |
| | Stored Purge water on site - 4-Drums Full 1-Drum 1/4 |
| | Closed all wells |
| | Deconed Equipment |
| | Loaded Truck |
| 1303 | Departed Site |

DRUM COUNT:

Water = 5
Devlpmt Water =
Soil =
Decon Water =

Brunsing Associates, Inc.

# WATER LEVELS

SHEET____OF____

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA PROJECT NUMBER: 691

INSTRUMENT TYPE: Enviro-Tech INITIALS: JC DATE: 1/17/06

| WELL NUMBER | DEPTH TO PRODUCT | DISTANCE TO WATER | TIME (24 HOUR) | EQUILIBRATED (CHECK FOR YES) | NOTES |
|---|---|---|---|---|---|
| MW-1 | — | 3.79 | 9:26 | | |
| MW-2 | — | 3.16 | 9:27 | | |
| MW-3 | — | 3.92 | 9:29 | | |
| MW-4 | — | 3.91 | 9:31 | | |
| MW-5 | — | 3.36 | 9:32 | | |
| CMW-4 | — | 3.21 | 9:34 | | |
| CMW-5 | — | 3.28 | 9:36 | | |
| | | | | | |
| MW-1 | — | 3.80 | 9:46 | ✓ | |
| MW-2 | — | 3.15 | 947 | ✓ | |
| MW-3 | — | 3.91 | 949 | ✓ | |
| MW-4 | — | 3.89 | 951 | | |
| MW-5 | — | 3.35 | 952 | ✓ | |
| CMW-4 | — | 3.20 | 953 | ✓ | |
| CMW-5 | — | 3.28 | 955 | ✓ | |
| | | | | | |
| | | | | | |
| MW-4 | — | 3.89 | 959 | ✓ | |
| | | | | | |
| | | | | | |
| | | | | | |
| CMW-4 | | 3.25 | 1307 | | Clear water |
| CMW-5 | | 3.18 | 1305 | | Clear water |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

# BRUNSING ASSOCIATES, INC.
# ENVIRONMENTAL DIVISION

## WELL SAMPLING

SHEET OF

PROJECT: Groth PROJECT NUMBER: 691.01

WELL# MW-1 PRECIP. IN LAST 5 DAYS: Yes WIND No DATE: 1/17/06

STARTING TIME: 1031 FINISHING TIME: 1057 INITIALS: [illegible]

**CALCULATION OF PURGE VOLUME**

2" WELL DEPTH: 20.00 - D.T.W. 3.80 = H20 COLUMN: 16.20 CONV.= 0.1

4" WELL DEPTH: - D.T.W. = H20 COLUMN: CONV.=

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 8 4" WELL

GALLONS

**FIELD MEASUREMENTS**

| TIME | GALLONS REMOVED | pH | CONDUCTIVITY | TEMP. | OBSERVATIONS |
|---|---|---|---|---|---|
| 1031 | 1 | 7.63 | 377 | 18.7 | Clear, No odor |
| 1035 | 4 | 7.34 | 366 | 19.4 | Brown, no odor |
| 1040 | 8 | 7.24 | 358 | 19.6 | Brown, No odor |

**SAMPLING:** SAMPLE ANALYSIS: TPH-GAS EPA-8260

SAMPLE TIME: 1042 DID WELL GO DRY? NO

| WATER LEVELS: | |
|---|---|
| TIME | D.T.W. |
| 1051 | 3.94 |

NOTES:

# BRUNSING ASSOCIATES, INC.
# ENVIRONMENTAL DIVISION

## WELL SAMPLING

SHEET OF

PROJECT: Groth PROJECT NUMBER: 691.01

WELL# MW-2 PRECIP. IN LAST 5 DAYS: Yes WIND No DATE: 1/17/00

STARTING TIME: 1100 FINISHING TIME: 1117 INITIALS: gl

**CALCULATION OF PURGE VOLUME**

2" WELL DEPTH: 20.00 - D.T.W. 3.15 = H20 COLUMN: 16.85 CONV.= 8.42

4" WELL DEPTH: - D.T.W. = H20 COLUMN: CONV.=

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 8 4" WELL

GALLONS

**FIELD MEASUREMENTS**

| TIME | GALLONS REMOVED | pH | CONDUCTIVITY | TEMP. | OBSERVATIONS |
|---|---|---|---|---|---|
| | | | | | |
| 1100 | 1 | 7.30 | 350 | 17.7 | Clear, no odor |
| | | | | | |
| 1104 | 4 | 7.24 | 370 | 18.5 | Brown, no odor |
| | | | | | |
| 1110 | 8 | 7.26 | 375 | 18.7 | Brown, no odor |
| | | | | | |
| | | | | | |

**SAMPLING:** SAMPLE ANALYSIS: TPH-GAS | | EPA-8260 | | | |

SAMPLE TIME: 1112 DID WELL GO DRY? No

| WATER LEVELS: | |
|---|---|
| TIME | D.T.W. |
| 1117 | 3.94 |
| | |
| | |
| | |
| | |
| | |
| | |

NOTES:

# BRUNSING ASSOCIATES, INC.
# ENVIRONMENTAL DIVISION

## WELL SAMPLING

SHEET OF

PROJECT: Groth PROJECT NUMBER: 691.01

WELL# MW-3 PRECIP. IN LAST 5 DAYS: yes WIND no DATE: 1/17/06

STARTING TIME: 1128 FINISHING TIME: 1147 INITIALS: gl

**CALCULATION OF PURGE VOLUME**

2" WELL DEPTH: 20.00 - D.T.W. 3.91 = H20 COLUMN: 16.09 CONV.= 8.04

4" WELL DEPTH: - D.T.W. = H20 COLUMN: CONV.=

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 8 4" WELL

GALLONS

**FIELD MEASUREMENTS**

| TIME | GALLONS REMOVED | p H | CONDUCTIVITY | TEMP. | OBSERVATIONS |
|---|---|---|---|---|---|
| | | | | | |
| 1128 | 1 | 7.57 | 269 | 17.5 | Clear, no odor |
| | | | | | |
| 1133 | 4 | 7.41 | 391 | 17.8 | gray, no odor |
| | | | | | |
| 1139 | 8 | 7.43 | 383 | 17.9 | gray, no odor |
| | | | | | |
| | | | | | |

**SAMPLING:** SAMPLE ANALYSIS: TPH-GAS | EPA-8260

SAMPLE TIME: 1142 DID WELL GO DRY? NO

| WATER LEVELS: | |
|---|---|
| TIME | D.T.W. |
| 1142 | 4.33 |

NOTES:

# WELL SAMPLING

SHEET OF

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA PROJECT NUMBER: 691

WELL # MW-4 PRECIP. IN LAST 5 DAYS: Yes WIND No DATE: 1/17/06

STARTING TIME: 1201 FINISHING TIME: 1216 INITIALS: gk

**CALCULATION OF PURGE VOLUME**

2" WELL DEPTH: 15.00 - D.T.W. 3.89 = H20 COLUMN: 11.11 X 0.5 = 5.55

4" WELL DEPTH: - D.T.W. = H20 COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS 6 GALLONS

## FIELD MEASUREMENTS

| TIME | GALLONS REMOVED | p H | CONDUCTIVITY | TEMP. | OBSERVATIONS |
|---|---|---|---|---|---|
| 1201 | 1 | 7.44 | 320 | 17.6 | clear, no odor |
| 1204 | 3 | 7.38 | 317 | 18.2 | clear, no odor |
| 1208 | 6 | 7.40 | 317 | 18.7 | clear, no odor |

**SAMPLING:** SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, pet oxy & Pb scav)

SAMPLE TIME: 1211 DID WELL GO DRY? NO

| WATER LEVELS: | |
|---|---|
| TIME | D.T.W. |
| 1216 | 7.49 |

NOTES:

# WELL SAMPLING

SHEET OF

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA PROJECT NUMBER: 691

WELL # MW-5 PRECIP. IN LAST 5 DAYS: Yes WIND No DATE: 1/17/06

STARTING TIME: 1226 FINISHING TIME: 1235 INITIALS: EJ

**CALCULATION OF PURGE VOLUME**

2" WELL DEPTH: 15.00 - D.T.W. 3.35 = H20 COLUMN: 11.65 X 0.5 = 5.82

4" WELL DEPTH: - D.T.W. = H20 COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS 6 GALLONS

**FIELD MEASUREMENTS**

| TIME | GALLONS REMOVED | p H | CONDUCTIVITY | TEMP. | OBSERVATIONS |
|---|---|---|---|---|---|
| | | | | | |
| 1226 | 1 | 7.36 | 356 | 17.1 | Brown, organic odor |
| | | | | | |
| 1229 | 3 | 7.26 | 354 | 17.5 | Brown, organic odor |
| | | | | | |
| 1232 | 6 | 7.23 | 338 | 17.9 | Brown, organic odor |
| | | | | | |
| | | | | | |

**SAMPLING:** SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, pet oxy & Pb scav)

SAMPLE TIME: 1236 DID WELL GO DRY? NO

| WATER LEVELS: | |
|---|---|
| TIME | D.T.W. |
| 1238 | 5.05 |
| | |
| | |
| | |
| | |
| | |
| | |

NOTES:

# APPENDIX C

## Analytical Laboratory Report

# Laboratory Report Project Overview

EDF 1.2a

| | |
|---|---|
| Laboratory: | Bace Analytical, Windsor, CA |
| Lab Report Number: | 4739 |
| Project Name: | 505 SANTA ROSA AVE |
| Work Order Number: | 691.070 |
| Control Sheet Number: | NA |

# Report Summary

| Labreport | Sampid | Labsampid | Mtrx | QC | Anmcode | Exmcode | Logdate | Extdate | Anadate | Lablotctl | Run Sub |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4739 | MW-1 | 4739-1 | W | CS | 8260FAB | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 9 |
| 4739 | MW-1 | 4739-1 | W | CS | 8260TPH | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 9 |
| 4739 | MW-2 | 4739-2 | W | CS | 8260FAB | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 15 |
| 4739 | MW-2 | 4739-2 | W | CS | 8260TPH | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 15 |
| 4739 | MW-3 | 4739-3 | W | CS | 8260FAB | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 16 |
| 4739 | MW-3 | 4739-3 | W | CS | 8260TPH | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 16 |
| 4739 | MW-4 | 4739-4 | W | CS | 8260FAB | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 12 |
| 4739 | MW-4 | 4739-4 | W | CS | 8260TPH | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 12 |
| 4739 | MW-5 | 4739-5 | W | CS | 8260FAB | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 17 |
| 4739 | MW-5 | 4739-5 | W | CS | 8260TPH | SW5030B | 01/17/2006 | 01/19/2006 | 01/19/2006 | 20060119C | 17 |
| | | 4739MB | W | LB1 | 8260FAB | SW5030B | / / | 01/19/2006 | 01/19/2006 | 20060119C | 2 |
| | | 4739MB | W | LB1 | 8260TPH | SW5030B | / / | 01/19/2006 | 01/19/2006 | 20060119C | 2 |
| | | 4739MS | W | MS1 | 8260FAB | SW5030B | / / | 01/19/2006 | 01/19/2006 | 20060119C | 10 |
| | | 4739MS | W | MS1 | 8260TPH | SW5030B | / / | 01/19/2006 | 01/19/2006 | 20060119C | 13 |
| | | 4739SD | W | SD1 | 8260FAB | SW5030B | / / | 01/19/2006 | 01/19/2006 | 20060119C | 11 |
| | | 4739SD | W | SD1 | 8260TPH | SW5030B | / / | 01/19/2006 | 01/19/2006 | 20060119C | 14 |

Bace Analytical, Windsor, CA

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | VOCs by GC/MS Fuel Additives Plus BTEX |
| Project No: | 691.070 | Method: | 8260FAB |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-1 | Lab Samp ID: | 4739-1 |
| Descr/Location: | MW-1 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1042 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Methyl-tert-butyl ether (MTBE) | 0.38 | 1.0 | PQL | | ND | UG/L | 1 |
| Ethyl tert-butyl ether (ETBE) | 0.30 | 1.0 | PQL | | ND | UG/L | 1 |
| tert-Amyl methyl ether (TAME) | 0.26 | 1.0 | PQL | | ND | UG/L | 1 |
| Di-isopropyl ether (DIPE) | 0.37 | 1.0 | PQL | | ND | UG/L | 1 |
| tert-Butyl alcohol (TBA) | 2.4 | 10. | PQL | | ND | UG/L | 1 |
| 1,2-Dichloroethane | 0.30 | 0.50 | PQL | | ND | UG/L | 1 |
| 1,2-Dibromoethane | 0.30 | 0.50 | PQL | | ND | UG/L | 1 |
| Benzene | 0.27 | 0.50 | PQL | | ND | UG/L | 1 |
| Toluene | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |
| Ethylbenzene | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |
| Xylenes | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |

SURROGATE AND INTERNAL STANDARD RECOVERIES:

| | | | | |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 86-118 | SLSA | 94% | 1 |
| Toluene-d8 | 88-110 | SLSA | 97% | 1 |
| Dibromofluoromethane | 86-115 | SLSA | 94% | 1 |

Approved by: William H Potts Date: 2/1/06

Bace Analytical, Windsor, CA

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | VOCs by GC/MS Fuel Additives Plus BTEX |
| Project No: | 691.070 | Method: | 8260FAB |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-2 | Lab Samp ID: | 4739-2 |
| Descr/Location: | MW-2 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1112 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Methyl-tert-butyl ether (MTBE) | 7.6 | 20. | PQL | | ND | UG/L | 20 |
| Ethyl tert-butyl ether (ETBE) | 6.0 | 20. | PQL | | ND | UG/L | 20 |
| tert-Amyl methyl ether (TAME) | 5.2 | 20. | PQL | | ND | UG/L | 20 |
| Di-isopropyl ether (DIPE) | 7.4 | 20. | PQL | | ND | UG/L | 20 |
| tert-Butyl alcohol (TBA) | 48. | 200. | PQL | | ND | UG/L | 20 |
| 1,2-Dichloroethane | 6.0 | 10. | PQL | | ND | UG/L | 20 |
| 1,2-Dibromoethane | 6.0 | 10. | PQL | | ND | UG/L | 20 |
| Benzene | 5.4 | 10. | PQL | | 43.0 | UG/L | 20 |
| Toluene | 5.0 | 10. | PQL | DX | ND | UG/L | 20 |
| Ethylbenzene | 5.0 | 10. | PQL | | 376. | UG/L | 20 |
| Xylenes | 5.0 | 10. | PQL | | 2830. | UG/L | 20 |

SURROGATE AND INTERNAL STANDARD RECOVERIES:

| | | | | |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 86-118 | SLSA | 91% | 1 |
| Toluene-d8 | 88-110 | SLSA | 95% | 1 |
| Dibromofluoromethane | 86-115 | SLSA | 95% | 1 |

DX: Value < lowest standard (MQL), but > than MDL

Approved by: William H Potts Date: 2/1/06

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | VOCs by GC/MS Fuel Additives Plus BTEX |
| Project No: | 691.070 | Method: | 8260FAB |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-3 | Lab Samp ID: | 4739-3 |
| Descr/Location: | MW-3 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1142 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Methyl-tert-butyl ether (MTBE) | 3.8 | 10. | PQL | | ND | UG/L | 10 |
| Ethyl tert-butyl ether (ETBE) | 3.0 | 10. | PQL | | ND | UG/L | 10 |
| tert-Amyl methyl ether (TAME) | 2.6 | 10. | PQL | | ND | UG/L | 10 |
| Di-isopropyl ether (DIPE) | 3.7 | 10. | PQL | | ND | UG/L | 10 |
| tert-Butyl alcohol (TBA) | 24. | 100. | PQL | | ND | UG/L | 10 |
| 1,2-Dichloroethane | 3.0 | 5.0 | PQL | | ND | UG/L | 10 |
| 1,2-Dibromoethane | 3.0 | 5.0 | PQL | | ND | UG/L | 10 |
| Benzene | 2.7 | 5.0 | PQL | | ND | UG/L | 10 |
| Toluene | 2.5 | 5.0 | PQL | | ND | UG/L | 10 |
| Ethylbenzene | 2.5 | 5.0 | PQL | | ND | UG/L | 10 |
| Xylenes | 2.5 | 5.0 | PQL | | 10.2 | UG/L | 10 |

SURROGATE AND INTERNAL STANDARD RECOVERIES:

| | | | | |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 86-118 | SLSA | 94% | 1 |
| Toluene-d8 | 88-110 | SLSA | 95% | 1 |
| Dibromofluoromethane | 86-115 | SLSA | 94% | 1 |

Approved by: William H Potts Date: 2/1/06

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | VOCs by GC/MS Fuel Additives Plus BTEX |
| Project No: | 691.070 | Method: | 8260FAB |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-4 | Lab Samp ID: | 4739-4 |
| Descr/Location: | MW-4 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1211 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Methyl-tert-butyl ether (MTBE) | 0.38 | 1.0 | PQL | | ND | UG/L | 1 |
| Ethyl tert-butyl ether (ETBE) | 0.30 | 1.0 | PQL | | ND | UG/L | 1 |
| tert-Amyl methyl ether (TAME) | 0.26 | 1.0 | PQL | | ND | UG/L | 1 |
| Di-isopropyl ether (DIPE) | 0.37 | 1.0 | PQL | | ND | UG/L | 1 |
| tert-Butyl alcohol (TBA) | 2.4 | 10. | PQL | | ND | UG/L | 1 |
| 1,2-Dichloroethane | 0.30 | 0.50 | PQL | | ND | UG/L | 1 |
| 1,2-Dibromoethane | 0.30 | 0.50 | PQL | | ND | UG/L | 1 |
| Benzene | 0.27 | 0.50 | PQL | | ND | UG/L | 1 |
| Toluene | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |
| Ethylbenzene | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |
| Xylenes | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |

SURROGATE AND INTERNAL STANDARD RECOVERIES:

| | | | | |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 86-118 | SLSA | 94% | 1 |
| Toluene-d8 | 88-110 | SLSA | 97% | 1 |
| Dibromofluoromethane | 86-115 | SLSA | 95% | 1 |

Approved by: William H Patty Date: 2/1/06

Bace Analytical, Windsor, CA

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | VOCs by GC/MS Fuel Additives Plus BTEX |
| Project No: | 691.070 | Method: | 8260FAB |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-5 | Lab Samp ID: | 4739-5 |
| Descr/Location: | MW-5 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1236 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Methyl-tert-butyl ether (MTBE) | 7.6 | 20. | PQL | | ND | UG/L | 20 |
| Ethyl tert-butyl ether (ETBE) | 6.0 | 20. | PQL | | ND | UG/L | 20 |
| tert-Amyl methyl ether (TAME) | 5.2 | 20. | PQL | | ND | UG/L | 20 |
| Di-isopropyl ether (DIPE) | 7.4 | 20. | PQL | | ND | UG/L | 20 |
| tert-Butyl alcohol (TBA) | 48. | 200. | PQL | | ND | UG/L | 20 |
| 1,2-Dichloroethane | 6.0 | 10. | PQL | | ND | UG/L | 20 |
| 1,2-Dibromoethane | 6.0 | 10. | PQL | | ND | UG/L | 20 |
| Benzene | 5.4 | 10. | PQL | | 560. | UG/L | 20 |
| Toluene | 5.0 | 10. | PQL | | ND | UG/L | 20 |
| Ethylbenzene | 5.0 | 10. | PQL | | 1204. | UG/L | 20 |
| Xylenes | 5.0 | 10. | PQL | | 366. | UG/L | 20 |

SURROGATE AND INTERNAL STANDARD RECOVERIES:

| | | | | |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 86-118 | SLSA | 91% | 1 |
| Toluene-d8 | 88-110 | SLSA | 97% | 1 |
| Dibromofluoromethane | 86-115 | SLSA | 93% | 1 |

Approved by: William R Roth Date: 2/1/06

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | Total Petroleum Hydrocarbons (TPH) by GC/MS |
| Project No: | 691.070 | Method: | 8260TPH |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-1 | Lab Samp ID: | 4739-1 |
| Descr/Location: | MW-1 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1042 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C5-C12) | 0.04 | 0.05 | PQL | | ND | MG/L | 1 |
| SURROGATE AND INTERNAL STANDARD RECOVERIES: | | | | | | | |
| 4-Bromofluorobenzene | | 70-130 | SLSA | | 94% | | 1 |

Approved by: William H Patty Date: 2/1/06

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | Total Petroleum Hydrocarbons (TPH) by GC/MS |
| Project No: | 691.070 | Method: | 8260TPH |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-2 | Lab Samp ID: | 4739-2 |
| Descr/Location: | MW-2 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1112 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C5-C12) | 0.80 | 1.0 | PQL | | 19. | MG/L | 20 |
| SURROGATE AND INTERNAL STANDARD RECOVERIES: | | | | | | | |
| 4-Bromofluorobenzene | | 70-130 | SLSA | | 92% | | 1 |

Approved by: William H Patty Date: 2/1/06

| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | Total Petroleum Hydrocarbons (TPH) by GC/MS |
| Project No: | 691.070 | Method: | 8260TPH |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-3 | Lab Samp ID: | 4739-3 |
| Descr/Location: | MW-3 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1142 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C5-C12) | 0.40 | 0.50 | PQL | | 2.4 | MG/L | 10 |
| SURROGATE AND INTERNAL STANDARD RECOVERIES: | | | | | | | |
| 4-Bromofluorobenzene | | 70-130 | SLSA | | 94% | | 1 |

Approved by: William H Poth Date: 2/1/06

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | Total Petroleum Hydrocarbons (TPH) by GC/MS |
| Project No: | 691.070 | Method: | 8260TPH |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-4 | Lab Samp ID: | 4739-4 |
| Descr/Location: | MW-4 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1211 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C5-C12) | 0.04 | 0.05 | PQL | | ND | MG/L | 1 |
| SURROGATE AND INTERNAL STANDARD RECOVERIES: | | | | | | | |
| 4-Bromofluorobenzene | | 70-130 | SLSA | | 94% | | 1 |

Approved by: William H Poth Date: 2/1/06

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| Project Name: | 505 SANTA ROSA AVE | Analysis: | Total Petroleum Hydrocarbons (TPH) by GC/MS |
| Project No: | 691.070 | Method: | 8260TPH |
| | | Prep Meth: | SW5030B |

| | | | |
|---|---|---|---|
| Field ID: | MW-5 | Lab Samp ID: | 4739-5 |
| Descr/Location: | MW-5 | Rec'd Date: | 01/17/2006 |
| Sample Date: | 01/17/2006 | Prep Date: | 01/19/2006 |
| Sample Time: | 1236 | Analysis Date: | 01/19/2006 |
| Matrix: | Water | QC Batch: | 20060119C |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C5-C12) | 0.80 | 1.0 | PQL | | 13. | MG/L | 20 |
| SURROGATE AND INTERNAL STANDARD RECOVERIES: | | | | | | | |
| 4-Bromofluorobenzene | | 70-130 | SLSA | | 91% | | 1 |

Approved by: William H Potts Date: 2/1/06

# QA/QC Report
# Method Blank Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| QC Batch: | 20060119C | Analysis: | VOCs by GC/MS Fuel Additives Plus BTEX |
| Matrix: | Water | Method: | 8260FAB |
| Lab Samp ID: | 4739MB | Prep Meth: | SW5030B |
| Analysis Date: | 01/19/2006 | Prep Date: | 01/19/2006 |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Methyl-tert-butyl ether (MTBE) | 0.38 | 1.0 | PQL | | ND | UG/L | 1 |
| Ethyl tert-butyl ether (ETBE) | 0.30 | 1.0 | PQL | | ND | UG/L | 1 |
| tert-Amyl methyl ether (TAME) | 0.26 | 1.0 | PQL | | ND | UG/L | 1 |
| Di-isopropyl ether (DIPE) | 0.37 | 1.0 | PQL | | ND | UG/L | 1 |
| tert-Butyl alcohol (TBA) | 2.4 | 10. | PQL | | ND | UG/L | 1 |
| 1,2-Dichloroethane | 0.30 | 0.50 | PQL | | ND | UG/L | 1 |
| 1,2-Dibromoethane | 0.30 | 0.50 | PQL | | ND | UG/L | 1 |
| Benzene | 0.27 | 0.50 | PQL | | ND | UG/L | 1 |
| Toluene | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |
| Ethylbenzene | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |
| Xylenes | 0.25 | 0.50 | PQL | | ND | UG/L | 1 |

SURROGATE AND INTERNAL STANDARD RECOVERIES:

| | | | | |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 86-118 | SLSA | 94% | 1 |
| Toluene-d8 | 88-110 | SLSA | 97% | 1 |
| Dibromofluoromethane | 86-115 | SLSA | 92% | 1 |

# QA/QC Report
# Method Blank Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4739 Date: 02/01/2006



| | | | |
|---|---|---|---|
| QC Batch: | 20060119C | Analysis: | Total Petroleum Hydrocarbons (TPH) by |
| Matrix: | Water | Method: | 8260TPH |
| Lab Samp ID: | 4739MB | Prep Meth: | SW5030B |
| Analysis Date: | 01/19/2006 | Prep Date: | 01/19/2006 |
| Basis: | Not Filtered | Notes: | |

| Analyte | Det Limit | Rep Limit | | Note | Result | Units | Pvc Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C5-C12) | 0.04 | 0.05 | PQL | | ND | MG/L | 1 |
| SURROGATE AND INTERNAL STANDARD RECOVERIES: | | | | | | | |
| 4-Bromofluorobenzene | | 70-130 | SLSA | | 94% | | 1 |

# QA/QC Report
## Matrix Spike/Duplicate Matrix Spike Summary

Bace Analytical, Windsor, CA



Lab Report No.: 4739 Date: 02/01/2006

QC Batch: 20060119C
Matrix: Water
Lab Samp ID: 4739MS
Basis: Not Filtered

Project Name: 505 SANTA ROSA AVE
Project No.: 691.070
Field ID: MW-1
Lab Ref ID: 4739-1

| Analyte | Analysis Method | Spike Level MS | Spike Level DMS | Sample Result | Spike Result MS | Spike Result DMS | Units | % Recoveries MS | % Recoveries DMS | % Recoveries RPD | Acceptance Criteria % Rec | Acceptance Criteria % Rec | Acceptance Criteria RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 8260FAB | 10.0 | 10.0 | ND | 9.43 | 10.4 | UG/L | 94.3 | 104 | 9.8 | 130-70 | MSA | 20MSP |
| 1,2-Dichloroethane | 8260FAB | 10.0 | 10.0 | ND | 8.39 | 9.86 | UG/L | 83.9 | 98.6 | 16 | 130-70 | MSA | 20MSP |
| Benzene | 8260FAB | 10.0 | 10.0 | ND | 9.91 | 10.8 | UG/L | 99.1 | 108 | 8.6 | 127-76 | MSA | 20MSP |
| Di-isopropyl ether (DIPE) | 8260FAB | 10.0 | 10.0 | ND | 7.22 | 7.41 | UG/L | 72.2 | 74.1 | 2.6 | 130-70 | MSA | 20MSP |
| Ethyl tert-butyl ether (ETBE) | 8260FAB | 10.0 | 10.0 | ND | 7.60 | 7.65 | UG/L | 76.0 | 76.5 | 0.66 | 130-70 | MSA | 20MSP |
| Ethylbenzene | 8260FAB | 10.0 | 10.0 | ND | 10.1 | 9.49 | UG/L | 101 | 94.9 | 6.2 | 130-70 | MSA | 20MSP |
| Methyl-tert-butyl ether (MTBE) | 8260FAB | 10.0 | 10.0 | ND | 7.22 | 7.10 | UG/L | 72.2 | 71.0 | 1.7 | 130-70 | MSA | 20MSP |
| Toluene | 8260FAB | 10.0 | 10.0 | ND | 10.7 | 10.6 | UG/L | 107 | 106 | 0.94 | 125-76 | MSA | 20MSP |
| Xylenes | 8260FAB | 30.0 | 30.0 | ND | 30.4 | 29.8 | UG/L | 101 | 99.3 | 1.7 | 130-70 | MSA | 20MSP |
| tert-Amyl methyl ether (TAME) | 8260FAB | 10.0 | 10.0 | ND | 7.42 | 7.58 | UG/L | 74.2 | 75.8 | 2.1 | 130-70 | MSA | 20MSP |
| tert-Butyl alcohol (TBA) | 8260FAB | 50.0 | 50.0 | ND | 33.2 | 31.0 | UG/L | 66.4 | 62.0 | 6.9 | 140-60 | MSA | 25MSP |
| 4-Bromofluorobenzene | 8260FAB | 100. | 100. | 94. | 92. | 91. | PERCENT | 92.0 | 91.0 | 1.1 | 118-86 | SLSA | 20SLSP |
| Dibromofluoromethane | 8260FAB | 100. | 100. | 94. | 95. | 93. | PERCENT | 95.0 | 93.0 | 2.1 | 115-86 | SLSA | 20SLSP |
| Toluene-d8 | 8260FAB | 100. | 100. | 97. | 97. | 97. | PERCENT | 97.0 | 97.0 | 0.00 | 110-88 | SLSA | 20SLSP |

# QA/QC Report
## Matrix Spike/Duplicate Matrix Spike Summary

Bace Analytical, Windsor, CA



Lab Report No.: 4739 Date: 02/01/2006

QC Batch: 20060119C
Matrix: Water
Lab Samp ID: 4739MS
Basis: Not Filtered

Project Name: 505 SANTA ROSA AVE
Project No.: 691.070
Field ID: MW-4
Lab Ref ID: 4739-4

| Analyte | Analysis Method | Spike Level MS | Spike Level DMS | Sample Result | Spike Result MS | Spike Result DMS | Units | % Recoveries MS | % Recoveries DMS | % Recoveries RPD | Acceptance Criteria % Rec | | Acceptance Criteria RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C5-C12) | 8260TPH | 0.50 | 0.50 | ND | 0.41 | 0.43 | MG/L | 82.0 | 86.0 | 4.8 | 130-70 | MSA | 20MSP |
| 4-Bromofluorobenzene | 8260TPH | 100. | 100. | 94. | 91. | 91. | PERCENT | 91.0 | 91.0 | 0.00 | 130-70 | SLSA | 20SLSP |

# Chain-of Custody Form

| Project # | Project Name | | | | | | | | | | | | | | | | C.O.C. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 691 070 | Groth Motors 505 S.R. Av | | | | | | | | | | | | | | | | 11444 |
| L.P. No. | Sampler's Signature | | | | | | | | | | | | | | | | Remarks: 14 day TAT |
| Date Sampled | Sample I.D. | Time (24 Hour) | Sample Type | No. of Containers | TPH Gas | BTEX 8260-B | Petro oxy Pb scan | | | | | | | | | | |
| 1/17/06 | MW-1 ✓ | 1042 | H2O | 4 | X | X | | | | | | | | | | | 4739-1 |
| 1/17/06 | MW-2 ✓ | 1112 | | 4 | X | X | | | | | | | | | | | -2 |
| | MW-3 ✓ | 1142 | | 4 | X | X | | | | | | | | | | | -3 |
| | MW-4 ✓ | 1211 | | 4 | X | X | | | | | | | | | | | -4 |
| | MW-5 ✓ | 1236 | | 4 | X | X | | | | | | | | | | | -5 |

Laboratory: Lennex

Preservation: A - HCL B - H2SO4: C - NaOH: D - HNO3: E - Ice F - (specify)

| Relinquished by: (signed) | Date/Time | Received by: (signed) | Remarks: |
|---|---|---|---|
| [signature] | 1/17/06 1433 | [signature] 1/17/06 1433 | Results To Diana Dickerson |
| Relinquished by: (signed) | Date/Time | Received by: (signed) [signature] | |
| Relinquished by: (signed) | Date/Time | Received for Laboratory by: (signed) | |

Brunsing Associates, Inc.
P.O. Box 588
5803 Skylane Blvd., Suite A
Windsor, CA 95492
(707) 838-3027
(707) 838-4420 fax

# APPENDIX D

## Clearwater Group Environmental Services Data

CLEARWATER
GROUP INC
Environmental Services

229 Tewksbury Ave. * Pt. Richmond, CA 94801
Telephone 510-307-9943 * Fax Line 510-232-2823

Limited Access Drilling-Phase I Environmental Assessments-Subsurface Investigations-Remediations Responsible Party Studies-Litigation Support-Underground Storage Tank Studies-Asbestos Inspections.

# FACSIMILE TRANSMISSION

TO: Mr. Steve Silva

FAX #: 707-838-4420

NUMBER OF SHEETS (INCLUDING THIS ONE): 22

DATE: 2/3/06 JOB NUMBER: AB021 H

MESSAGE:

Hi, Steve:

Here are the data.

Jim

FROM:

IF YOU DID NOT RECEIVE THE COMPLETE TRANSMISSION,
PLEASE CALL 510-307-9943

THIS FAX MAY CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF PERSON(S) NAMED ABOVE WHO HAVE A RIGHT OF PRIVACY. IF YOU ARE NOT AN INTENDED RECIPIENT. YOU ARE NOTIFIED THAT ANY DISCLOSURE DISSEMINATION DUPLICATION OF THIS FAX IS NOT AUTHORIZED, AND NO WAIVER OF ANY PRIVILEGE OR CONFIDENTIALITY IS INTENDED BY YOUR RECEIPT OF THIS TRANSMISSION. IF YOU HAVE RECEIVED THIS FAX IN ERROR, PLEASE NOTIFY US BY COLLECT TELEPHONE CALL AND RETURN IT SO WE MAY REDIRECT IT THANK YOU.

updated on 3/15/05

CLEARWATER GROUP
229 Tewksbury Avenue,
Point Richmond, CA 94801
Tel: (510) 307-9943 Fax: (510) 232-2823

# WELL GAUGING/PURGING CALCULATIONS DATA SHEET

| Date: | Job No.: | Location: |
|---|---|---|
| 1/17/06 | A6021H | 421 Santa Rosa Ave |

| Tech(s): | Drums on Site @ TOA/TOD | Total number of DRUMS used for this event |
|---|---|---|
| Eric Austin, Rodney Berry | Soil: Water: | Soil: Water: 1 |

| Well No. | Diameter (in) | DTB (ft) | DTW (ft) | ST (ft) | CV (gal) | PV (gal) | SPL (ft) | Notes |
|---|---|---|---|---|---|---|---|---|
| MW-7 | 2 | 19.12 | 6.77 | 12.35 | 1.97 | 5.91 | | |
| MW-8 | 2 | 19.25 | 6.79 | 12.46 | 1.99 | 5.97 | | |
| MW-9 | 2 | 18.15 | 6.31 | 11.84 | 1.89 | 5.67 | | |
| MW-10 | 2 | 19.75 | 6.66 | 13.09 | 2.09 | 6.27 | | |
| MW-6 | 2 | 19.55 | 4.63 | 14.92 | 2.38 | 7.14 | | Need to raised well |
| MW-5 | 2 | 19.01 | 3.28 | 15.73 | 2.51 | 7.53 | | 3.25 |
| MW-2A | 2 | 18.75 | 3.52 | 15.23 | 2.43 | 7.29 | | |
| MW-4 | 2 | 18.95 | 3.20 | 15.75 | 2.52 | 7.56 | | 3.18 |
| MW-11 | 2 | 19.43 | 3.25 | 16.18 | 2.58 | 7.74 | | |
| MW-1A | 2 | 19.61 | 4.96 | 14.65 | 2.34 | 7.02 | | |
| MW-12 | 2 | 23.54 | 4.29 | 19.25 | 3.08 | 9.24 | | |

**Explanation:**
DTB = Depth to Bottom
DTW = Depth to Water
ST = Saturated Thickness (DTB-DTW) must be > 1 foot
CV = Casing Volume (ST x cf)
PV = Purge Volume (standard 3 x CV, well development 10 x CV)
SPL = Thickness of Separate Phase Liquid

**Conversion Factors (cf)**
2-inch diameter well cf = 0.16 gal/ft
4-inch diameter well cf = 0.65 gal/ft
6-inch diameter well cf = 1.44 gal.ft

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Jim Ho
Clearwater Group, Inc.
229 Tewksbury Avenue
Point Richmond, CA 94801

Subject : 11 Water Samples
Project Name : 421 Santa Rosa Ave.
Project Number : AB021H

Dear Mr. Ho,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-7** Matrix : Water Lab Number : 47949-01
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **320** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **6.5** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **15** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **810** | 50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 99.1 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 106 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 108 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-8** Matrix : Water Lab Number : 47949-02
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **3.6** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 99.8 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 109 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 110 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-9** Matrix : Water Lab Number : 47949-03
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **5.1** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 99.3 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 105 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 108 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-10** Matrix : Water Lab Number : 47949-04
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **13** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **15** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 98.9 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 106 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 108 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-6** Matrix : Water Lab Number : 47949-05
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 99.2 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 106 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 108 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-5** Matrix : Water Lab Number : 47949-06
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **4.0** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **74** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **140** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **3600** | 50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 97.3 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 98.2 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 99.2 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 98.8 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-2A** Matrix : Water Lab Number : 47949-07
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 98.6 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 105 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 109 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-4** Matrix : Water Lab Number : 47949-08
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **290** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **19** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **64** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **67** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **1.2** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **6.0** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **2400** | 50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 97.5 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 106 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 105 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 97.8 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-11** Matrix : Water Lab Number : 47949-09
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **3.4** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/20/2006 |
| **TPH as Gasoline** | **92** | 50 | ug/L | EPA 8260B | 1/20/2006 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 1/20/2006 |
| Toluene - d8 (Surr) | 98.3 | | % Recovery | EPA 8260B | 1/20/2006 |
| 4-Bromofluorobenzene (Surr) | 105 | | % Recovery | EPA 8260B | 1/20/2006 |
| Dibromofluoromethane (Surr) | 107 | | % Recovery | EPA 8260B | 1/20/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | % Recovery | EPA 8260B | 1/20/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-1A** Matrix : Water Lab Number : 47949-10
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **490** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **Toluene** | **68** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethylbenzene** | **1800** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **Total Xylenes** | **2800** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **Methyl-t-butyl ether (MTBE)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **Diisopropyl ether (DIPE)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **Tert-Butanol** | **< 25** | 25 | ug/L | EPA 8260B | 1/19/2006 |
| **TPH as Gasoline** | **35000** | 500 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dichloroethane** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| **1,2-Dibromoethane** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 97.6 | | % Recovery | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 106 | | % Recovery | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 105 | | % Recovery | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | % Recovery | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 47949
Date : 1/20/2006

Project Name : **421 Santa Rosa Ave.**
Project Number : **AB021H**

Sample : **MW-12** Matrix : Water Lab Number : 47949-11
Sample Date :1/17/2006

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **1600** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **Toluene** | **80** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **Ethylbenzene** | **1100** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **Total Xylenes** | **960** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **Methyl-t-butyl ether (MTBE)** | **< 3.0** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **Diisopropyl ether (DIPE)** | **< 3.0** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **Ethyl-t-butyl ether (ETBE)** | **< 3.0** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **Tert-amyl methyl ether (TAME)** | **< 3.0** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **Tert-Butanol** | **< 15** | 15 | ug/L | EPA 8260B | 1/20/2006 |
| **TPH as Gasoline** | **16000** | 300 | ug/L | EPA 8260B | 1/20/2006 |
| **1,2-Dichloroethane** | **< 3.0** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| **1,2-Dibromoethane** | **< 3.0** | 3.0 | ug/L | EPA 8260B | 1/20/2006 |
| Toluene - d8 (Surr) | 99.1 | | % Recovery | EPA 8260B | 1/20/2006 |
| 4-Bromofluorobenzene (Surr) | 95.5 | | % Recovery | EPA 8260B | 1/20/2006 |
| Dibromofluoromethane (Surr) | 99.8 | | % Recovery | EPA 8260B | 1/20/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 95.4 | | % Recovery | EPA 8260B | 1/20/2006 |

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 47949

Date : 1/20/2006

**QC Report : Method Blank Data**

Project Name : **421 Santa Rosa Ave.**

Project Number : **AB021H**

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 99.2 | | % | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 95.0 | | % | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 99.3 | | % | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 99.3 | | % | EPA 8260B | 1/19/2006 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 100 | | % | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 111 | | % | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 112 | | % | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | % | EPA 8260B | 1/19/2006 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 98.5 | | % | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 99.0 | | % | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 105 | | % | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | % | EPA 8260B | 1/19/2006 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 99.7 | | % | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 108 | | % | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 107 | | % | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | % | EPA 8260B | 1/19/2006 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 47949

Date : 1/20/2006

**QC Report : Method Blank Data**

Project Name : **421 Santa Rosa Ave.**

Project Number : **AB021H**

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 1/19/2006 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 1/19/2006 |
| Toluene - d8 (Surr) | 96.4 | | % | EPA 8260B | 1/19/2006 |
| 4-Bromofluorobenzene (Surr) | 106 | | % | EPA 8260B | 1/19/2006 |
| Dibromofluoromethane (Surr) | 106 | | % | EPA 8260B | 1/19/2006 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % | EPA 8260B | 1/19/2006 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 47949

Date : 1/20/2006

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **421 Santa Rosa Ave.**

Project Number : **AB021H**

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 47950-09 | <0.50 | 39.7 | 39.9 | 45.3 | 45.7 | ug/L | EPA 8260B | 1/19/06 | 114 | 114 | 0.218 | 70-130 | 25 |
| Toluene | 47950-09 | <0.50 | 39.7 | 39.9 | 42.6 | 43.4 | ug/L | EPA 8260B | 1/19/06 | 107 | 109 | 1.20 | 70-130 | 25 |
| Tert-Butanol | 47950-09 | <5.0 | 198 | 200 | 202 | 214 | ug/L | EPA 8260B | 1/19/06 | 102 | 108 | 5.35 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 47950-09 | <0.50 | 39.7 | 39.9 | 38.5 | 38.7 | ug/L | EPA 8260B | 1/19/06 | 97.0 | 97.0 | 0.0623 | 70-130 | 25 |
| Benzene | 47949-02 | <0.50 | 40.0 | 40.0 | 41.0 | 40.5 | ug/L | EPA 8260B | 1/19/06 | 102 | 101 | 1.26 | 70-130 | 25 |
| Toluene | 47949-02 | <0.50 | 40.0 | 40.0 | 39.6 | 40.1 | ug/L | EPA 8260B | 1/19/06 | 99.0 | 100 | 1.21 | 70-130 | 25 |
| Tert-Butanol | 47949-02 | <5.0 | 200 | 200 | 211 | 205 | ug/L | EPA 8260B | 1/19/06 | 106 | 102 | 3.12 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 47949-02 | 3.6 | 40.0 | 40.0 | 39.9 | 40.7 | ug/L | EPA 8260B | 1/19/06 | 90.8 | 92.8 | 2.21 | 70-130 | 25 |
| Benzene | 47949-06 | <0.50 | 40.0 | 40.0 | 43.2 | 42.1 | ug/L | EPA 8260B | 1/19/06 | 108 | 105 | 2.62 | 70-130 | 25 |
| Toluene | 47949-06 | 4.0 | 40.0 | 40.0 | 43.8 | 42.7 | ug/L | EPA 8260B | 1/19/06 | 99.5 | 96.8 | 2.70 | 70-130 | 25 |
| Tert-Butanol | 47949-06 | <5.0 | 200 | 200 | 213 | 239 | ug/L | EPA 8260B | 1/19/06 | 107 | 119 | 11.3 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 47949-06 | <0.50 | 40.0 | 40.0 | 42.6 | 41.7 | ug/L | EPA 8260B | 1/19/06 | 106 | 104 | 2.14 | 70-130 | 25 |
| Benzene | 47950-06 | <0.50 | 40.0 | 40.0 | 43.1 | 41.7 | ug/L | EPA 8260B | 1/19/06 | 108 | 104 | 3.40 | 70-130 | 25 |
| Toluene | 47950-06 | <0.50 | 40.0 | 40.0 | 41.6 | 40.4 | ug/L | EPA 8260B | 1/19/06 | 104 | 101 | 2.86 | 70-130 | 25 |
| Tert-Butanol | 47950-06 | <5.0 | 200 | 200 | 212 | 212 | ug/L | EPA 8260B | 1/19/06 | 106 | 106 | 0.0127 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 47950-06 | <0.50 | 40.0 | 40.0 | 38.5 | 38.2 | ug/L | EPA 8260B | 1/19/06 | 96.3 | 95.4 | 0.917 | 70-130 | 25 |
| Benzene | 47968-05 | <0.50 | 40.0 | 40.0 | 41.7 | 40.4 | ug/L | EPA 8260B | 1/19/06 | 104 | 101 | 3.11 | 70-130 | 25 |
| Toluene | 47968-05 | <0.50 | 40.0 | 40.0 | 40.4 | 39.3 | ug/L | EPA 8260B | 1/19/06 | 101 | 98.3 | 2.82 | 70-130 | 25 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 47949

Date : 1/20/2006

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **421 Santa Rosa Ave.**

Project Number : **AB021H**

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tert-Butanol | 47968-05 | <5.0 | 200 | 200 | 208 | 208 | ug/L | EPA 8260B | 1/19/06 | 104 | 104 | 0.0633 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 47968-05 | <0.50 | 40.0 | 40.0 | 37.7 | 37.5 | ug/L | EPA 8260B | 1/19/06 | 94.2 | 93.6 | 0.613 | 70-130 | 25 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 47949

Date : 1/20/2006

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **421 Santa Rosa Ave.**

Project Number : **AB021H**

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---|---|---|---|---|---|---|
| Benzene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 114 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 108 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 1/19/06 | 104 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 1/19/06 | 97.6 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 99.3 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 101 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 1/19/06 | 103 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 1/19/06 | 92.6 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 110 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 99.4 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 1/19/06 | 104 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 1/19/06 | 107 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 102 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 102 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 1/19/06 | 104 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 1/19/06 | 91.7 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 102 | 70-130 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 47949

Date : 1/20/2006

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **421 Santa Rosa Ave.**

Project Number : **AB021H**

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---|---|---|---|---|---|---|
| Toluene | 40.0 | ug/L | EPA 8260B | 1/19/06 | 101 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 1/19/06 | 106 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 1/19/06 | 90.8 | 70-130 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

**KIFF Analytical LLC**

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 47949

Page 1 of 2

# Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Jim Ito

California EDF Report? X Yes ☐ No

Company / Address: Cornerstone Group 1229 Tewksbury Point Richmond

Sampling Company Log Code: CWGO

Phone #: (510) 307-9943

Fax #: (510) 232-2323

Global ID: T0609700581

Project #: AB021H

P.O. #:

EDF Deliverable To (Email Address): JIMRENO@cornerstonegroup.com

Project Name: 421 Santa Rosa Ave.

Sampler Signature: Rodney Berry

Project Address: 421 Santa Rosa Ave. Santa Rosa, CA

| Sample Designation | Sampling Date | Sampling Time | 40 ml VOA | Sleeve | Poly | Glass | Tedlar | HCl | $HNO_3$ | None | Water | Soil | Air | MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb | MTBE (EPA 8260B) @ 0.5 ppb | BTEX (EPA 8260B) | TPH Gas (EPA 8260B) | 5 Oxygenates (EPA 8260B) | 7 Oxygenates (EPA 8260B) | Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B) | Volatile Halocarbons (EPA 8260B) | Volatile Organics Full List (EPA 8260B) | Volatile Organics (EPA 524.2 Drinking Water) | TPH as Diesel (EPA 8015M) | TPH as Motor Oil (EPA 8015M) | Total Lead (EPA 6010) | W.E.T. Lead (STLC) | TAT (12 hr / 24 hr / 48 hr / 72 hr / Std) | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | 1/17/06 | 1500 | X | | | | | X | | | X | | | | | X | X | X | | X | | | | | | | | Std | 01 |
| 8 | | 1510 | | | | | | | | | | | | | | | | | | | | | | | | | | | 02 |
| 9 | | 1520 | | | | | | | | | | | | | | | | | | | | | | | | | | | 03 |
| 10 | | 1530 | | | | | | | | | | | | | | | | | | | | | | | | | | | 04 |
| 6 | | 1540 | | | | | | | | | | | | | | | | | | | | | | | | | | | 05 |
| 5 | | 1550 | | | | | | | | | | | | | | | | | | | | | | | | | | | 06 |
| 2A | | 1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | 07 |
| 4 | | 1610 | | | | | | | | | | | | | | | | | | | | | | | | | | | 08 |
| 11 | | 1620 | | | | | | | | | | | | | | | | | | | | | | | | | | | 09 |
| 1A | | 1630 | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |

| Relinquished by: | Date | Time | Received by: |
|---|---|---|---|
| Rodney Berry | 1/17/06 | 1900 | |
| | | | |
| | 01/18/06 | 1330 | Received by Laboratory: |

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

| Temp °C | Initials | Date | Time | Therm. ID # | Coolant Present |
|---|---|---|---|---|---|
| 0.6 | JTA | 01/18/06 | 1530 | TR-1 | Yes / No |

Distribution: White - Lab, Pink - Originator
Rev: 051805

**KIFF ANALYTICAL LLC**

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 47949 Page 2 of 2

# Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Jim Ho

Company/Address: Clearwater Group 229 Fink Street Ave, Ft. Richmond, CA

Phone No.: (510) 307-9913 FAX No.: (510) 232-2823

Project Number: HB0217H P.O. No:

Project Name: 421 Santa Rosa

Project Address: 421 Santa Rosa Ave Santa Rosa, CA

California EDF Report? ☒ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: CWGC

Global ID: T0609700581

EDF Deliverable To (Email Address): jim@clearwatergroup.com

Sampler Signature: Robert Berry

| Sample Designation | Sampling Date | Sampling Time | Container: 40 ml VOA | Container: SLEEVE | Container: | Container: | Container: | Reservative: HCl | Reservative: $HNO_3$ | Reservative: ICE | Reservative: NONE | Reservative: | Matrix: WATER | Matrix: SOIL | Matrix: | BTEX (8021B) | BTEX/TPH Gas/MTBE (8021B/M8015) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | TPH Gas/BTEX/MTBE (8260B) | 5 Oxygenates/TPH Gas/BTEX (8260B) | 7 Oxygenates/TPH Gas/BTEX (8260B) | 5 Oxygenates (8260B) | 7 Oxygenates (8260B) | Lead Scav. (1,2 DCA & 1,2 EDB - 8260B) | EPA 8260B (Full List) | Volatile Halocarbons (EPA 8260B) | Lead (7421/239.2) | TOTAL (X) W.E.T. (X) | | | | | TAT: 12 hr/24 hr/48 hr/72 hr/Std | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-12 | 1/17/06 | 1920 | X | | | | | X | | | | | X | | | | | | | X | | | X | | X | | | | | | | | | X | 11 |

Relinquished by: Robert Berry Date 1/17/06 Time 1900 Received by:

Relinquished by: Date Time Received by:

Relinquished by: Date 1/18/06 Time 1300 Received by Laboratory: Kiff Analytical LLC

Remarks: Just run test for TPH & BTEX not MTBE

Bill to:

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.frm