

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No. R1-2014-0040
(Rescinding & Replacing Monitoring and Reporting Program No. R1-2009-0067)

For

West College Center, LLC

Former Best Cleaners
1007B West College Avenue
Santa Rosa, California
Case No. 1NSR382
WDID No. 1B08063RSON

Sonoma County

This Monitoring and Reporting Program is issued pursuant to California Water Code Section 13267(b) and requires semi-annual monitoring of groundwater, and the submittal of semi-annual monitoring reports. The objectives of monitoring conducted under this Monitoring and Reporting Program are to provide the Discharger and Regional Water Board staff with information regarding the effectiveness of the treatment method, groundwater quality, the protection of human health and the environment, and to demonstrate compliance with the provisions of Waste Discharge Requirements Order No. R1-2009-0066.

This Monitoring and Reporting Program rescinds and replaces Monitoring and Reporting Program No. R1-2009-0067.

Under the authority of California Water Code Section 13267, the Discharger named above is required to comply with the following:

GROUNDWATER MONITORING

1. The depth to groundwater shall be measured semi-annually in monitoring wells MW-1, MW-1B, MW-2, MW-2B, MW-3, MW-3B, MW-4, MW-5, MW-5B, MW-6 and MW-6B, MW-7, and MW-8 during the first and third calendar quarters. Groundwater elevations shall be measured to the nearest 0.01-foot prior to monitoring well purging and sampling. Groundwater elevations shall be reported in tabular form indicating the surveyed elevations of each well reference point, depth to groundwater from the reference point, and the actual groundwater elevation. The data generated from the elevation readings must be referenced to the same elevation datum used for the State Water Resources Control Board's Geographic Environmental Information Management System database (GeoTracker) as specified in Title 23, Division 3, Chapter 30, Article 2, Sections 3890-3895 of the California Code of Regulations.

2. Monitoring wells shall be purged of at least three casing volumes of water, or until dry, prior to sampling. Monitoring wells shall be allowed to recharge to at least 80% of the initial casing volume prior to sampling. All purge water shall be contained pending analysis for proper disposal. An alternative well-purging protocol may be used upon the written approval of the Executive Officer.
3. Analyses for volatile organic compounds shall include the constituents of concern listed in the table below.

Compound Name	CAS No.
Tetrachloroethene	127-18-4
Trichloroethene	79-01-6
cis-1,2-Dichloroethene	156-59-2
trans-1,2-Dichloroethene	156-60-5
1,1-Dichloroethene	75-35-4
Vinyl chloride	75-01-4

Analytical methods for groundwater sample analyses for volatile organic compounds shall achieve practical quantification and reporting limits of 0.5 micrograms per liter or lower for samples without interferences.

4. Groundwater monitoring wells MW-1, MW-1B, MW-2, MW-2B, MW-3, MW-3B, MW-4, MW-5, MW-5B, MW-6 and MW-6B shall be sampled semi-annually, during the first and third calendar quarters, and analyzed for the volatile organic compounds specified in Item # 3, total organic carbon, and the dissolved gases ethane, ethene, and methane.
5. Remediation injection wells IW-10, IW-10B, IW-13, and IW-13B and the groundwater monitoring wells identified in Item # 4 shall be sampled semi-annually and field-tested for the process control parameters pH, temperature, electrical conductivity, dissolved oxygen, and oxidation-reduction potential.
6. Monitoring wells MW-5, MW-5B, MW-6, and MW-6B shall be sampled semi-annually and analyzed for the dissolved metals arsenic, iron, and manganese.
7. Chemical analyses required by this Monitoring and Reporting Program shall be conducted by laboratories certified for those analyses by the California Department of Health Services.

REPORTING

Monitoring reports shall be submitted semi-annually to the GeoTracker database according to the following schedule:

<u>Report</u>	<u>Monitoring Period</u>	<u>Report Due Date</u>
First Semi-annual	January through March	May 1
Second Semi-annual	July through September	November 1

All other reports, workplans, laboratory analytical data, surveyed monitoring well locations, and depth to groundwater measurements for the site shall also be submitted in electronic format to GeoTracker. Laboratory analytical reports shall be submitted to GeoTracker within thirty days of receipt. Additional information specifying the roles, responsibilities and specific data requirements for the electronic submittal of information can be referenced at the State Water Resources Control Board internet website: http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/.

Each semi-annual monitoring report shall include the following elements:

- A. Groundwater elevation maps for each monitored water-bearing zone showing groundwater elevations relative to the locations of monitoring wells, vapor monitoring points, former and current underground tanks, and other significant features.
- B. Contaminant isoconcentration maps showing the distribution of contaminant concentrations in groundwater for tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride in each water-bearing zone monitored.
- C. Analytical data tables summarizing the current and historical analytical results for all permanent groundwater and vapor monitoring points.
- D. Copies of the following: well purging and sampling field logs; chain of custody documentation showing the time and date of collection and person collecting; and signed laboratory reports including quality control data and explanations of analytical anomalies, if any. Monitoring reports shall identify the type of instruments that were used for field-measured data, and shall include copies of the pre- and post-calibration records or provide other assurance for field data quality. These supporting documents may be included as appendices in the report.

- E. A discussion summarizing the current and historical analytical results for subsurface vapor and indoor air sampling conducted at the site to assess potential vapor intrusion to indoor air, including a description of any vapor or air sampling conducted during the reporting period. The discussion should evaluate whether any additional investigation or mitigation measures are needed to address any indoor air quality concerns.

Ordered By _____

Matthias St. John
Executive Officer

June 9, 2014