

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM ORDER NO. R5-2008-0809  
CALIFORNIA WATER CODE SECTION 13267  
FOR  
RESTRUCTURE PETROLEUM MARKETING SERVICES INC,  
VRG PROPERTIES COMPANY AND JEM1, LLC.  
FORMER "FILL'EM FAST"  
1017 DOUGLAS BOULEVARD, ROSEVILLE, PLACER COUNTY

This site consists of a former retail gasoline station, located at 1017 Douglas Boulevard, Roseville, Placer County, Placer County assessor parcel number 013-194-027-000. Restructure Petroleum Marketing Services Inc, and VRG Properties Company, responsible for the unauthorized releases identified beneath the site in 1984 and 1992, and JEM1, LLC, the current property owner, are hereafter collectively referred to as Dischargers. The unauthorized releases that occurred from the site's former UST system have impacted soil, soil vapor, and groundwater with gasoline related constituents, additives, and oxygenates. Although multiple efforts to reduce source area concentrations have been conducted, elevated petroleum hydrocarbon concentrations persist in groundwater beneath the site and to the south beneath Douglas Boulevard at concentrations that exceed numerical limits selected to implement Water Quality Objectives contained in the Water Quality Control Plan for the Sacramento and San Joaquin River Basins (4<sup>th</sup> ed) (Basin Plan) adopted by the Regional Water Quality Control Board, Central Valley Region (Regional Water Board).

This Monitoring and Reporting Program (MRP) Order is issued by the Assistant Executive Officer of the Regional Board pursuant to California Water Code (CWC) section 13267. This Order is issued to the Dischargers because they own and/or operated the property on which the discharges have occurred and continue to occur. The technical and monitoring reports required by this Order are necessary to delineate the extent of discharges of waste in groundwater and to determine whether remediation efforts are effective. Existing data and information about the site show the presence of various wastes, including gasoline related constituents, additives, and oxygenates, emanating from the property under the control of the Dischargers. The Dischargers shall not implement any changes to this MRP unless and until a revised MRP is issued by the Assistant Executive Officer. Failure to comply with the terms of this Order may result in administrative fines being levied against the Dischargers by the Regional Water Board pursuant to CWC sections 13261, 13350, or any other applicable provision of law.

Prior to construction of any new groundwater monitoring or extraction wells, and prior to destruction of any groundwater monitoring or extraction wells, the Discharger shall submit plans and specifications to the Regional Water Board for review and approval. Once installed, all new wells shall be added to the monitoring program and shall be sampled and analyzed according to the schedule below.

## GROUNDWATER MONITORING

As shown on Figure 1, there are currently six groundwater monitoring wells, five groundwater extraction wells, five dual purpose vapor extraction/air sparging wells, and eight air sparge wells. The groundwater monitoring program for the six groundwater monitoring wells, five groundwater extraction wells, and any monitoring/extraction wells installed or acquired subsequent to the issuance of this MRP, shall follow the schedule below.

Monitoring wells with “free phase” petroleum product (i.e., liquid phase hydrocarbons) or a visible sheen shall be monitored for product thickness, depth to water, and the volume of extracted free phase product documented in the corresponding quarterly monitoring report. Sample collection and analysis shall follow standard EPA protocol.

SAMPLING FREQUENCY <sup>1</sup>		
Frequency	Quarterly	Semi-annually <sup>2</sup>
Wells	MW-3, MW-4, MW-8, EX-1, EX-2, EX-3, EX-4, EX-5, All new/acquired wells	MW-2, MW-5, MW-6, MW-7

<sup>1</sup> All wells shall be monitored quarterly for water levels and the presence and thickness of free product.

<sup>2</sup> Wells shall be sampled semi-annually during the first and third quarters.

Constituent Analysis		
Constituents <sup>3</sup>	EPA Analytical Method	Maximum Practical Quantitation Limit (µg/l) <sup>4</sup>
Depth to Groundwater	---	---
Total Petroleum Hydrocarbons	8015M	50
Benzene	8020 or 8260B	0.5
Toluene	8020 or 8260B	0.5
Ethylbenzene	8020 or 8260B	0.5
Xylene	8020 or 8260B	0.5
MTBE	8260B	0.5
TBA	8260B	5

<sup>3</sup> In the normal course of analysis for constituents of concern all peaks identified by EPA Method 8260B must be reported.

<sup>4</sup> For non-detectable results. All concentrations between the Method Detection Limit and the Practical Quantitation Limit shall be reported as trace.

## REPORTING

When reporting the data, the Discharger shall arrange the information in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized in such a manner as to illustrate clearly compliance with this Order. In addition, the Discharger shall notify the Regional Water Board within 48 hours of any unscheduled shutdown of any remediation system.

As required by the California Business and Professions Code sections 6735, 7835, and 7835.1, all reports shall be prepared by a registered professional or their subordinate and signed and where required stamped by the registered professional.

The Discharger shall submit Quarterly reports to the Regional Water Board by the 15<sup>th</sup> day of the month following the end of the calendar quarter in which samples are collected; by **15 April, 15 July, 15 October, and 15 January** of each year until such time as the Executive Officer determines that the reports are no longer necessary. For each Quarterly report submitted, the Discharger must also upload into GeoTracker all corresponding analytical and site data required by California Code of Regulations, title 23, Division 3, Chapter 30. Electronic copies are due to GeoTracker concurrent with the corresponding hard copy deliver to this office.

Each quarterly report shall include, at a minimum, the following information:

- (a) a description and discussion of the groundwater sampling event and results, including trends in the concentrations of waste constituents and groundwater elevations in the wells, how and when samples were collected, and whether the waste plume(s) is delineated;
- (b) field logs that contain, at a minimum, water quality parameters measured before, during, and after purging, method of purging, depth of water, volume of water purged, etc.;
- (c) groundwater contour maps for all groundwater zones, as applicable;
- (d) isocontour waste constituent concentration maps for all groundwater zones, as applicable;
- (e) a table showing well construction details such as well number, groundwater zone being monitored, coordinates (longitude and latitude), ground surface elevation, reference elevation, elevation of screen, elevation of bentonite, elevation of filter pack, and elevation of well bottom;
- (f) a table showing historical lateral and vertical (if applicable) flow directions and gradients;
- (g) cumulative data tables containing water quality analytical results and depth to groundwater;
- (h) a copy of the laboratory analytical data report;
- (i) if applicable, the status of any ongoing remediation, including cumulative information on the mass of waste removed from the subsurface, system operating time, the

- effectiveness of the remediation system, and any field notes pertaining to the operation and maintenance of the system; and
- (j) if applicable, the reasons for and duration of all interruptions in the operation of any remediation system, and actions planned or taken to correct and prevent interruptions.

The fourth quarter monitoring report, due by **15 January** of each year, shall be an expanded report and shall include the following additional information:

- (a) both tabular and graphical summaries of all data obtained during the year;
- (b) groundwater contour maps and waste constituent concentration maps containing all data obtained during the previous year;
- (c) a discussion of long-term trends in the concentrations of waste in groundwater monitoring wells;
- (d) an analysis of whether the waste plume is being captured by an extraction system or is continuing to spread;
- (e) a description of all remedial activities conducted during the year, an analysis of their effectiveness in removing the waste, and plans to improve remediation system effectiveness;
- (f) an identification of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program; and
- (g) if desired, a proposal and rationale for any revisions to the groundwater sampling plan frequency and/or list of analytes.
- (h) an evaluation of the effectiveness and progress of investigative and remedial efforts.

The results of any monitoring done more frequently than required at the locations specified in the MRP also shall be reported to the Regional Water Board. The Discharger shall implement the above monitoring program as of the date of the Order.

Ordered by:

---

JACK DEL CONTE, Assistant Executive Officer

---

3 April 2008