

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM ORDER NO. R5-2009-0834
CALIFORNIA WATER CODE SECTION 13267
FOR
SFP-B LIMITED PARTNERSHIP
SFP-B LIMITED PARTNERSHIP PROPERTY
5601 FLORIN ROAD, SACRAMENTO
SACRAMENTO COUNTY

This Order is issued to SFP-B Limited Partnership (hereafter Discharger) pursuant to California Water Code section 13267, which authorizes the Executive Officer of the California Regional Water Quality Control Board, Central Valley Region (hereafter Central Valley Water Board) to issue a Monitoring and Reporting Order (Order).

The Executive Officer finds:

INTRODUCTION

1. A petroleum discharge occurred at 5601 Florin Road in Sacramento, Sacramento County (Site), while the property and tanks were owned and operated by Montgomery Wards. Montgomery Wards performed several phases of investigation and site remediation prior to declaring bankruptcy and selling the property. SFP-B Limited Partnership purchased this property in June 2003, and as the current property owner, is a Responsible Party.
2. The property is currently used as a Les Schwab Tire Center, and is situated on the northeast corner of Florin Road and 6th Parkway (Figure 1). Groundwater is first encountered at approximately 45 feet below ground surface (bgs). During the first quarter 2009 groundwater monitoring event, concentrations of petroleum constituents were detected at maximum concentrations of: total petroleum hydrocarbons as gasoline (TPH-G) 13,000 micrograms per liter (ug/l), benzene 550 ug/l, toluene 1,200 ug/l, ethylbenzene 460 ug/l, total xylenes 3,000 ug/l, methyl tert butyl ether (MTBE) 8.3 ug/l, naphthalene 120 ug/l, and tert butyl ether (TBA) 16 ug/l. MTBE contamination is believed to be due to an up-gradient source and is not attributed to the release at this site. This pollution has impaired the beneficial use of groundwater resources at the Site.
3. A soil vapor extraction (SVE) system and groundwater extraction and treatment (GWE) system were installed in 1993, and air sparging was added in 1998. The SVE and GWE systems operated from 1993 to 2000, the SVE system was restarted from 2004 to 2005, but was shut down due to low influent concentrations. Groundwater extraction was restarted in late 2006.
4. This Monitoring and Reporting Program (MRP) is issued by the Central Valley Water Board, pursuant to California Water Code (CWC) section 13267 and is necessary to delineate groundwater pollutant plumes and determine whether remediation efforts are effective.
5. Existing data and information about the Site show the presence of various chemicals, including TPH-G; benzene, toluene, ethylbenzene, and xylenes (BTEX); and naphthalene, emanating from the property under the control of the Discharger. Based on

the available data the Discharger is responsible for the discharge because the discharger owns the property and has control of the discharge.

6. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer. This MRP replaces the requirements listed in MRP No. R5-2007-0814, which was issued on 28 June 2007.
7. 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 Central Valley 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.
8. The California State Water Resources Control Board (State Water Board) adopted Resolution No. 2009-0042 requiring a reduction from quarterly groundwater monitoring to semi-annual or less frequent monitoring at all sites, unless site-specific conditions warrant otherwise. This MRP complies with and serves as your notice of State Board Resolution No. 2009-0042.

LEGAL PROVISIONS

9. CWC section 13267 states, in part:

(b)(1) In conducting an investigation, the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or, discharging, or who proposes to discharge waste within its region . . . shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.

The reports required herein are necessary for the reasons described in this Order, to assure protection of waters of the state, and to protect public health and the environment.

10. CWC section 13268 states, in part:

(a)(1) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of Section 13267 . . . or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).

(b)(1) Civil liability may be administratively imposed by a regional board in accordance with Article 2.5 (commencing with Section 13323) of Chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars (\$1,000) for each day in which the violation occurs.

Failure to submit the required reports to the Central Valley Water Board according to the schedule detailed herein may result in enforcement action(s) being taken against you, which may include the imposition of administrative civil liability pursuant to CWC section 13268. Administrative civil liability of up to \$1,000 per violation per day may be imposed for non-compliance with the directives contained herein.

- Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with CWC section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday (including mandatory furlough days), the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

REQUIRED ACTIONS

IT IS HEREBY ORDERED that, pursuant to California Water Code section 13267, the Discharger shall:

- Conduct monitoring and reporting in compliance with the following specifications.
- As shown on Figure 1, there are 24 groundwater monitoring wells, MW-401 through MW-409, MW-409B, MW-410 through MW-416, W-1 through W-6, and MW-13, associated with the Site. The groundwater monitoring program for the 24 monitoring wells, and any wells installed subsequent to the issuance of this MRP, shall follow the schedule in the following table.

		SAMPLING FREQUENCY									
		Semi-annually¹					Annually²				
Wells		MW-401	MW-402	MW-404	MW-405	MW-408	MW-406	MW-407	MW-409	W-1	
		MW-409B	MW-411	MW-412	MW-413	MW-414	W-2	W-3	W-4	W-5	W-6
		MW-415	MW-416								

1. Wells shall be sampled annually in the fourth quarter.

2. Wells shall be sampled semi-annual in the second and fourth quarters.

- Sample collection and analysis shall follow standard Environmental Protection Agency (EPA) protocol. Monitoring wells with free phase petroleum product or visible sheen shall be monitored, at a minimum, for product thickness and depth to water. The volume of extracted groundwater also shall be provided in semi-annual monitoring reports. All wells shall be sampled semi-annual for laboratory analysis. All wells shall be monitored semi-annual for water levels and the presence and thickness of free product.

Constituents	EPA Analytical Method ⁴	Maximum Practical Quantitation Limit (µg/l) ⁵
Depth to Groundwater	---	---
TPH-G	8015M	50
TPH-D ⁶	8015M	50
Oil & Grease ⁶	1664A	50
BTEX	8260B	0.5
MTBE	8260B	0.5
VOCs	8260B	---
PAHs ⁶	8270	---
Tetraethyl Lead ⁶	200.8	0.005
Total Lead ⁶	7421/6010B	0.50

4. Report all peaks identified in the normal course of analysis for constituents of concern.

5. All concentrations between the Method Detection Limit and the Practical Quantitation Limit shall be reported as trace.

6. If results are not detected for two consecutive quarters in site wells, they may be removed from the list of analytes.

PAH = polynuclear aromatic hydrocarbons

REPORTING

4. When reporting 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 the compliance with this Order.
5. 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 by the registered professional and submitted under penalty of perjury.
6. The Technical Report, which conform to the requirements of the California Code of Regulations, title 23, division 3, chapter 30, shall be submitted electronically over the internet to the State Water Board Geotracker database system.
7. The Dischargers shall notify the Central Valley Water Board staff within 48 hours of any unscheduled shutdown of any soil vapor and/or groundwater extraction system.
8. The Discharger shall submit a paper copy of all semi-annual monitoring reports to this Central Valley Water Board office and submit the electronic data reports, which conform to the requirements of the California Code of Regulations, Title 23, Division 3, Chapter 30, electronically over the Internet to the State Water Board's GeoTracker database system. Both the paper copy and the electronic submittals are due by the 1st day of the second month following the end of each second and fourth calendar quarter, by **1 August** (1st ½ of the year), and **1 February** (2nd half of the year), until such time as the Executive Officer determines that the reports are no longer necessary. Each semi-annual report shall include the following minimum information:

- a. A description and discussion of the groundwater sampling event and results, including trends in the concentrations of pollutants and groundwater elevations in the wells, how and when samples were collected, and whether the pollutant plume(s) is delineated to EPA method detection limits.
 - 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, depth of pump placement, etc.
 - c. Groundwater elevation contour maps for all groundwater zones, if applicable.
 - d. Concentration contour maps for all groundwater zones for TPH-G, benzene, and MTBE.
 - e. A table showing well construction details such as well number, groundwater zone being monitored, ground surface elevation, screen interval, bentonite interval, filter pack interval, and total depth of the well.
 - f. A table showing historical horizontal and vertical (if applicable) gradient directions and magnitudes.
 - g. Cumulative data tables containing the 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 mass of pollutant 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.
 - 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.
9. The Second Semi-Annual Groundwater Monitoring Report, due **1 February** of each year shall be an expanded report and will include the following additional information/items:
- a. Tabular summaries of all data obtained during the last year.
 - b. Graphical summaries, of TPH-G, benzene, and MTBE concentrations, groundwater elevation data, and remediation system operation versus time for wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-9, MW-12, MW-14, and additional wells as request by Central Valley Water Board staff.
 - c. A rose diagram presenting groundwater flow direction and magnitude.

- d. Contaminant concentration contour maps for TPH-G, benzene, and MTBE for each monitoring event from the previous year.
 - e. A discussion of the long-term trends in the concentrations of the pollutants in the groundwater monitoring wells.
 - f. An analysis of whether the pollutant plume is being captured by an extraction system or is continuing to migrate.
 - g. A description of all remedial activities conducted during the year, an analysis of their effectiveness in removing the pollutants, and plans to improve remediation system effectiveness.
 - h. An identification of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
 - i. If desired, a proposal and rationale for any revisions to the groundwater sampling plan frequency and/or list of analytes.
10. The Discharge shall be responsible for submitting a separate remediation status report documenting remedial activities and remedial system operation for the second and fourth quarters. Both the paper copy and the electronic submittal are due by the 1st day of the second month following the end of the calendar quarter by **1 February, and 1 August**, until such time as the Executive Officer determines that the reports are no longer necessary. Each remediation status report shall include the following minimum information:
- a. The status of any ongoing remediation, including:
 - i. Average extraction rates of all treatment systems.
 - ii. Influent and effluent concentrations of TPH-G, BTEX, MTBE, di-isopropyl ether (DIPE), ethyl tert butyl ether (ETBE), tert amyl methyl ether (TAME), and tert butyl alcohol (TBA), and disposal location.
 - iii. Mass of hydrocarbons treated during the reporting period and cumulative to date.
 - iv. The effectiveness of the remediation system, including estimated mass of wastes remaining and predicted time frame for meeting cleanup objectives.
 - v. System operating time, including running and down time for the remediation system(s).
 - vi. Any field notes pertaining to the operation and maintenance of the system, and a summary of consultant visits to the site.
 - vii. Evaluation of the overall remediation program and recommendations to correct deficiencies or increase efficiency.
 - b. 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.
11. The results of any monitoring done more frequently than required at the locations specified in the MRP also shall be reported to the Central Valley Water Board staff.

12. You must continue to comply with General Waste Discharge Requirements, Order No. R5-2003-0044-23.

This Order is effective upon the date of signature.

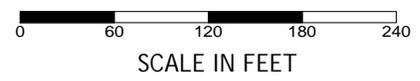
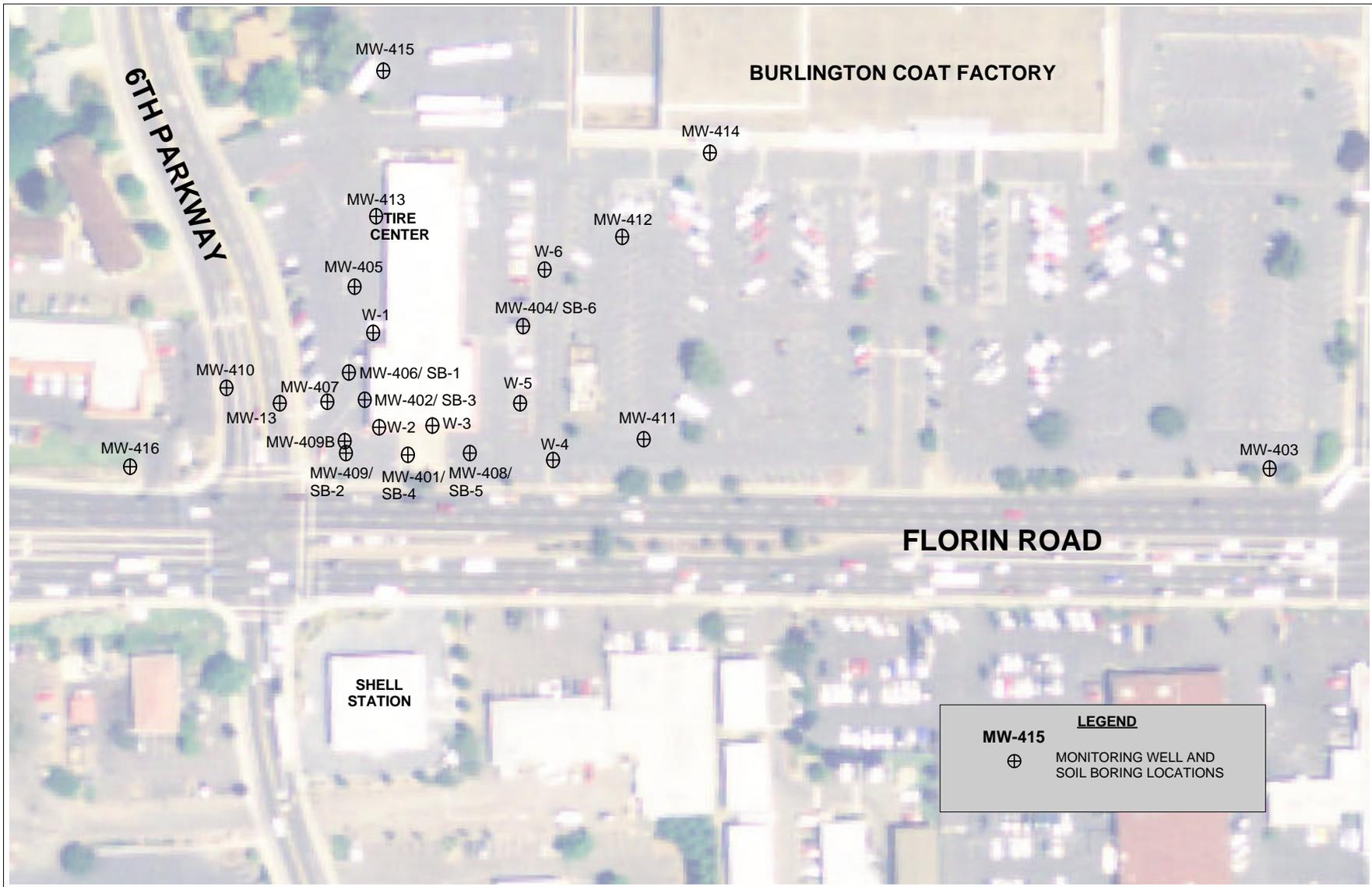
Ordered by:

original signed by

PAMELA C. CREEDON,
Executive Officer

21 July 2009

(Date)



MONITORING WELL AND SOIL BORING LOCATIONS
 5601 FLORIN ROAD
 SACRAMENTO, CALIFORNIA