

California Regional Water Quality Control Board
North Coast Region

Monitoring And Reporting Program No. R1-2010-0016
(Replaces Monitoring and Reporting Program No. 91-122)

For

FLYING J, INC.

For the Site located at

3505 BROADWAY
EUREKA, CALIFORNIA

Case No. 1THU317

Humboldt County

This Monitoring and Reporting Program is issued pursuant to California Water Code Section (CWC) 13267(b) and requires monitoring of groundwater and air, and submission of technical reports. Reports are required on a quarterly basis. The objective of monitoring conducted under this program is to fulfill the monitoring requirements of Regional Water Quality Control Board General Waste Discharge Requirements Order No. R1-2006-0107. The requirements of this Monitoring and Reporting Program are in addition to, and do not supplant, the monitoring requirements of the Humboldt County Division of Environmental Health.

Under the authority of CWC section 13267, the Discharger named above is required to comply with the following:

MONITORING

1. Groundwater samples from monitoring wells MW-12A, MW-7A, VE-5, and MW-16 shall be collected and analyzed according to Table 1.
2. Air within the existing service station building and in the vicinity of the wells receiving oxidant injection shall be tested according to Table 1.

TABLE 1		
Analytical Constituent	Sample Medium	Frequency
pH	Groundwater	Quarterly
Total Petroleum Hydrocarbons as Gasoline	Groundwater	Quarterly
Benzene, Toluene, Ethylbenzene, and Xylenes	Groundwater	Quarterly

TABLE 1		
Analytical Constituent	Sample Medium	Frequency
MTBE	Groundwater	Quarterly
Total Dissolved Solids	Groundwater	Quarterly for the first year of oxidant injection, semiannually thereafter
Chemical Oxygen Demand	Groundwater	Quarterly
Dissolved Oxygen	Groundwater	Quarterly for the first year of oxidant injection, semiannually thereafter
Dissolved Carbon Dioxide	Groundwater	Quarterly for the first year of oxidant injection, semiannually thereafter
Temperature	Groundwater	Quarterly
Dissolved Metals (as listed in Attachment A of Order No. R1-2006-0107) ¹	Groundwater	Quarterly for the first year of oxidant injection, semiannually thereafter
Oxygen Reduction Potential	Groundwater	Quarterly for the first year of oxidant injection, semiannually thereafter
Hydrogen Peroxide	Groundwater	Quarterly for the first year of oxidant injection, semiannually thereafter
Bromate ²	Groundwater	Quarterly
Ozone	Air	Daily during the first week of injection, weekly thereafter
Volatile Organic Compounds	Air	Daily during the first week of injection, weekly thereafter
¹ The form of chromium for which to analyze shall be hexavalent chromium. The laboratory reporting limit for hexavalent chromium should be no higher than 5 µg/L. ² The analytical method used for bromate should have a practical quantitation limit no higher than 1 µg/L, with detections below practical quantitation limit but above the method detection limit reported.		

3. All laboratory analyses shall be performed at a laboratory certified by the California Department of Health Services.

REPORTING

1. If a remediation byproduct (e.g., bromate or hexavalent chromium) not present in background groundwater is detected in a groundwater sample, or if a remediation byproduct groundwater concentration exceeds its background concentration by an order of magnitude, Regional Water Quality Control Board staff shall be notified within two weeks of receipt of the laboratory analytical results. The subsequent monitoring report shall contain an evaluation of if the groundwater treatment system needs to be modified or shutdown to prevent long-term accumulation or spread of such byproducts.

2. Quarterly monitoring reports shall be submitted to this office in accordance with the following schedule:

<u>Reporting Period</u>	<u>Due Date</u>
January, February, March	May 1
April, May, June	August 1
July, August, September	November 1
October, November, December	February 1

3. Current and previous analytical results shall be reported in tables which include the following:
 - a. sampling point;
 - b. date of sample collection;
 - c. constituents and analytical results; and
 - d. quantification limits employed for non-detect analytical results.
4. All current and previous remedial system operation and maintenance activities shall be reported in the monitoring reports.
5. Each report shall contain copies of the well purging and sampling field logs; chain of custody documents showing the time and date of collection and person collecting; and signed laboratory sheets including quality control data and explanations of analytical anomalies, if any. These supporting documents may be included as appendices to the report.
6. If one or more samples or analyses required by this program cannot be collected, the report shall state the reason for the omission and explain what corrective actions shall be employed to prevent future omissions.
7. The monitoring reports shall be submitted in hard copy form. In addition, the monitoring reports and monitoring data shall also be submitted electronically to the State Water Resources Control Board's GeoTracker database as required by Title 23, Division 3, Chapter 30 of the California Code of Regulations.

Ordered by _____

Catherine Kuhlman
Executive Officer

January 28, 2010