

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No R1-2003-0050

for

ALMA TASSI FAMILY TRUST PROPERTY
24800 WARD AVENUE
FORT BRAGG, CA 95437
MENDOCINO COUNTY

Monitoring

1. Monitoring wells (MWs) MW-1, MW-2, MW-3, MW-4, MW-5 and the domestic well at 24800 Ward Avenue and 24830 Ward Avenue shall be sampled prior to the addition of nutrients to confirm baseline and background groundwater characteristics, which may be affected by the treatment application. The analyses shall be performed at a certified laboratory for total organic carbon, nitrite, nitrate as nitrogen, ammonia, potassium, phosphate, total heterotrophic bacterial count and total hydrocarbon degrading bacterial count, total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and volatile organic compounds by EPA Method 8260 full scan. In addition field analysis parameters for oxidation reduction potential, pH, conductivity, temperature, dissolved oxygen, hydrogen peroxide shall be collected.
2. During the dosing of groundwater with nutrients, monitoring wells MW-1, MW-2, M-3, MW-4, MW-5 and domestic well at 24800 Ward Avenue and 24830 Ward Avenue shall be sampled and analyzed on a quarterly basis. The analyses shall be performed at a certified laboratory for total organic carbon, nitrite, nitrate as nitrogen, ammonia, potassium, phosphate, total heterotrophic bacterial count and total hydrocarbon degrading bacterial count, total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and volatile organic compounds by EPA Method 8260 full scan. In addition field analysis parameters for oxidation reduction potential, pH, conductivity, temperature, dissolved oxygen, and hydrogen peroxide shall be collected.
3. Upon completion of dosing of groundwater with nutrients, monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and domestic well at 24800 Ward Avenue and 24830 Ward Avenue shall be sampled and analyzed once during the following wet season and once during the following dry season. The analyses shall be performed at a certified laboratory for total organic carbon, nitrite, nitrate as nitrogen, ammonia, potassium, phosphate, total heterotrophic bacterial count and total hydrocarbon degrading bacterial count, total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and volatile organic compounds by EPA Method 8260 full scan. In addition field analysis parameters for oxidation reduction potential, pH, conductivity, temperature, dissolved oxygen, and hydrogen peroxide shall be collected.

4. Prior to sampling monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5, the depth to groundwater shall be determined to at least 0.01-foot increments in all MWs during each monitoring event. The results of each measured elevation shall be reported in tabular form as well as on groundwater gradient maps 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 mean sea level.

Reporting

1. A groundwater elevation contour map shall be submitted for each set of measurements and include the facility groundwater flow pattern including the direction of the groundwater gradient, and the location of the wells measured.
2. Quarterly monitoring reports shall be submitted to this office summarizing all monitoring data collected during the dosing period and until groundwater characteristics affected by the treatment application return to background levels in accordance with the following schedule:

Reporting Period

Due Date

May, June, July

August 15

August, September, October

November 15

November, December, January

February 15

February, March, April

May 15

Ordered by _____

Susan A. Warner
Executive Officer

May 15, 2003