

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2008-0007

FOR

ANCHOR BAY ASSOCIATES
AND
MR. ROBERT JOEKEL

ANCHOR BAY STATION
35500 HIGHWAY 1, SOUTH
ANCHOR BAY, CA
CASE NO. 1TMC350

Mendocino County

MONITORING

1. All monitoring wells shall be checked for the presence or absence of free product prior to the collection of groundwater samples. If free product is present, all surrounding soil vapor extraction wells shall also be checked for free product. The thickness of the product shall be measured to at least 0.01 foot increments.
2. The depth to groundwater in monitoring wells MW-1 through MW-9 shall be determined to at least 0.01 foot increments, prior to purging, on a quarterly basis. The data generated from the elevation readings must be referenced to mean sea level.

SAMPLING AND ANALYSIS

3. Groundwater samples shall be collected semi-annually, during the first and third calendar quarter, from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-7 and MW-9.
4. Surface water samples shall be collected quarterly, when water is present, from the locations designated as SRFW-Station, Culvert Drng. 2 and SRFW-Beach.
5. All water samples shall be analyzed for:
 - a) Total Petroleum Hydrocarbons measured as gasoline (TPH-g);
 - b) Volatile Organic Compounds: Benzene, toluene, ethyl benzene, and xylenes;
 - c) Fuel additives: methyl tertiary butyl ether (MtBE), tertiary butyl alcohol (TBA), tert-amyl methyl ether (TAME), and 1,2-dichloroethane (1,2-DCA).
6. All Chemical analyses shall be conducted by a laboratory certified by the California Department of Health Services for those analyses.
7. Analytical methods for sample analyses shall achieve minimum detection levels that are adequate for evaluating regulatory action levels for each constituent. A table of commonly achievable minimum detection levels for the constituents of concern is incorporated in this Monitoring and Reporting Program Order as Appendix A.

REPORTING

8. Monitoring reports shall be submitted to the North Coast Regional Water Quality Control Board at 5550 Skylane Boulevard, Suite A, Santa Rosa, California, 95403 according to the following schedule:

<u>Quarter</u>	<u>Reporting Period</u>	<u>Required Submittal Date</u>
First Quarter	January, February, March	April 30th
Second Quarter	April, May, June	July 31st
Third Quarter	July, August, September	October 31st
Fourth Quarter	October, November, December	January 31st

9. Monitoring data and reports shall also be submitted electronically to the State Water Resources Control Board's Geographic Environmental Information Management System database (GeoTracker) as required by Title 23, Division 3, Chapter 30, Article 2, Sections 3890-3895 of the California Code of Regulations.
10. Monitoring reports shall include the following elements:
- A narrative description of the work conducted;
 - An accurately scaled site plan showing all structures and other significant site features, including the locations of former underground storage tanks, monitoring wells, surface water sampling points, remediation system layout, and vapor extraction wells;
 - A groundwater elevation map for each sampling event;
 - Contaminant distribution maps for TPH-g, benzene, and MTBE showing the current concentration isograms for each constituent;
 - Analytical data tables including both current and historical analytical results;
 - Field instrument calibration records and protocols;
 - Copies of the well purging and sampling field logs; chain of custody documents; and signed laboratory reports including quality control data and explanations of analytical anomalies, if any. These supporting documents may be included as appendices to the report; and
 - A table summarizing soil vapor extraction system (SVE) operational data shall be submitted. The table shall present the soil vapor treatment system influent and effluent analytical results, the volume of soil vapor extracted, and the cumulative contaminant mass removed.

Ordered by _____

Robert R. Klamt
Interim Executive Officer

January 9, 2008

Commonly Achievable Minimum Detection Levels for Petroleum Constituents

CHEMICAL	Minimum Detection Level
Petroleum Hydrocarbons (as gasoline)	50 µg/l
Petroleum Hydrocarbons (as diesel)	50 µg/l
Petroleum Hydrocarbons (as motor oil)	50 µg/l
Benzene	0.5 µg/l
Toluene	0.5 µg/l
Ethyl Benzene	0.5 µg/l
Xylenes	0.5µg/l
Ethylene dibromide (Dibromoethane)	0.5 µg/l
1,2-Dichloroethane (1,2-DCA)	0.5 µg/l
Methyl tertiary butyl ether (MTBE)	0.5 µg/l
Tertiary butyl alcohol (TBA)	5.0 µg/l
Tert-amyl methyl ether (TAME)	0.5 µg/l