



California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
Cal/EPA Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: <http://www.waterboards.ca.gov/losangeles>

Arnold Schwarzenegger
Governor

December 19, 2008

Mr. Dave Bustillos
Facilities Manager
New Hampshire Ball Bearings, Inc.
9730 Independence Avenue
Chatsworth, CA 91311

COVERAGE UNDER GENERAL WASTE DISCHARGE REQUIREMENTS ORDER NO. R4-2007-0019 AND MONITORING AND REPORTING PROGRAM NO. CI-9471 – NEW HAMPSHIRE BALL BEARINGS, INC., 9730 INDEPENDENCE AVENUE, CHATSWORTH, CALIFORNIA (FILE NO. 08-158)

Dear Mr. Bustillos:

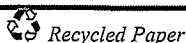
Los Angeles Regional Water Quality Control Board (Regional Board) staff have completed our review of your application for coverage under General Waste Discharge Requirements (WDR) to place lactose and ferrous sulfate into site groundwater, in the form of EHC[®]-A, to remediate volatile organic compounds (VOCs). The EHC[®]-A will be injected below the water table using a well where the screen is isolated with an inflatable packer. We have determined that the proposed discharge meets the conditions specified in Regional Board Order No. R4-2007-0019, *Revised General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel, Volatile Organic Compound and/or Hexavalent Chromium Impacted Sites*, adopted by this Regional Board on March 1, 2007. Refer to the attached Fact Sheet for additional discharge information.

Enclosed are your WDR, consisting of Regional Board Order No. R4-2007-0019 (Series 085) and Monitoring and Reporting Program No. CI-9471. Please note that the discharge limits in Attachment B, Table 3-10 Water Quality Objectives for Selected Constituents in Regional Ground Waters (DWR Basin No. 4-12 West of Highway 405, San Fernando Basin) of Order No. R4-2007-0019 are applicable to your discharge.

The "Monitoring and Reporting Program" requires you to implement the monitoring program on the effective date of this enrollment (December 19, 2008) under Regional Board Order No. R4-2007-0019. All monitoring reports shall be sent to the Regional Board, ATTN: Information Technology Unit. When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-9471", which will assure that the reports are directed to the appropriate file and staff. Submit each type of report as a separate document. Please do not combine other reports with your monitoring reports.

To avoid paying future annual fees, please submit written request for termination of your enrollment under the general permit in a separate letter, when your project has been completed and the permit is no longer needed. Be aware that the annual fee covers the fiscal year billing period beginning July 1 and

California Environmental Protection Agency



Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

Mr. Dave Bustillos
New Hampshire Ball Bearings, Inc.
(File No. 08-158)

- 2 -

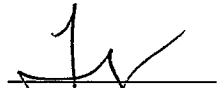
December 19, 2008

ending June 30, the following year. You will pay the full annual fee if your request for termination is made after the beginning of the new fiscal year beginning July 1.

Copies of Board Order No. R4-2007-0019 can be obtained at our web site address:
http://www.waterboards.ca.gov/losangeles/board_decisions/adopted_orders.

If you have any questions, please contact Ms. Thizar Tintut-Williams at (213) 576-6723.

Sincerely,




Tracy J. Egoscue
Executive Officer

Enclosures: Fact Sheet
WDR Board Order No. R4-2007-0019
Monitoring and Reporting Program No. CI-9471

cc: Mr. Mike Floyd, Division of Water Quality, State Water Resources Control Board
Mr. Alfonso Medina, Public Health, Environmental Health, County of Los Angeles
Mr. Richard Gebert, Department of Toxic Substances Control, Chatsworth
Mr. Gary C. Yomantas, NMB (USA) Inc.
Mr. Mark Bierei, Malcolm Pirie, Inc.
Mr. Mike Asakawa, Malcolm Pirie, Inc.

/ttw

California Environmental Protection Agency

 Recycled Paper

Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. CI-9471
FOR
NEW HAMPSHIRE BALL BERINGS, INC
9730 INDEPENDENCE AVENUE
CHATSWORTH, CALIFORNIA
FILE NO. 08-158

ORDER NO. R4-2007-0019
SERIES NO. 085

I. REPORTING REQUIREMENTS

- A. The Discharger shall implement this monitoring program on the effective date of this enrollment (December 19, 2008) under Regional Board Order No. R4-2007-0019. The first monitoring report under this Program is due by April 15, 2009.

Monitoring reports shall be received by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15
Semi-annual	July 15
Annual	January 15

- B. If there is no discharge or injection, during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.
- C. By March 1 of each year, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements.
- D. The Discharger shall comply with requirements contained in Section G of Order No. R4-2007-0019 "*Monitoring and Reporting Requirements*" in addition to the aforementioned requirements.

II. IN-SITU CHEMICAL REDUCTION INJECTION MONITORING REQUIREMENTS

The quarterly reports shall contain the following information regarding injection activities:

- A. Location maps showing monitoring and injection locations for the lactose and ferrous sulfate (EHC[®]-A) solutions.
- B. Written summary defining:
 1. Depth of injection points;
 2. Quantity of solution injected per injection point;
 3. Total amount of each solution injected at site; and
 4. Verification of each solution injected.

III. GROUNDWATER MONITORING PROGRAM

The Discharger may use existing data for background groundwater characteristics. The following shall constitute the monitoring program. The Discharger shall conduct baseline sampling prior to In-Situ Chemical Reduction (ISCR) injection, followed by week 1, week 2, week 4, week 8, week 12, and week 16, semi-annual, and annual sampling events after the ISCR injections from monitoring wells and injection wells (listed below) for the following groundwater parameters:

WELL NUMBER	WELL STATUS
MW-8	Injection and monitoring well
MW-9	Cross gradient monitoring well
MW-3	Down gradient monitoring well
MW-5	Down gradient monitoring well
MW-7	Down gradient monitoring well

CONSTITUENT	UNITS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS
Total daily injection waste flow	gallons/day (to indicate solution concentration)	In-Situ	Daily during injection
Groundwater Elevation	Feet, mean sea level (msl) and below ground surface (bgs)	In-Situ	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter

CONSTITUENT	UNITS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS
pH	pH units	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Temperature	Degrees C	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Dissolved Oxygen	µg/l	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Turbidity	NTU	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Specific Conductance	mS/cm	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Oxidation-Reduction Potential	Millivolts	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Total Organic Carbon (EPA Method 415.1)	µg/l	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Chlorinated Volatile Organic Compounds (EPA Method 8260B)	µg/l	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Dissolved Metals (arsenic, barium, boron, cadmium, chromium, hexavalent chromium, copper, iron, lead, manganese, mercury, selenium, and zinc)	µg/l	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter

CONSTITUENT	UNITS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS
Major Anions (bromide, nitrate, nitrite, O-phosphate, and sulfate)	mg/l (as Nitrogen)	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Major Cations (barium, calcium, magnesium, manganese, potassium, and sodium)	mg/l	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Color	color unit	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Total dissolved solids and Total suspended solids	mg/l	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter
Alkalinity, as CaCO	mg/l	grab	Baseline, Weeks 1, 2, 4, 8, 12, 16, semi-annually for one year, and annually thereafter

All groundwater monitoring reports must include, at minimum, the following:

- A. Well identification, date and time of sampling;
- B. Sampler identification, and laboratory identification;
- C. Observation of groundwater levels, recorded to 0.01 feet mean sea level and groundwater flow direction; and
- D. Tabular and graphical summaries of all the monitoring data.

IV. CERTIFICATION STATEMENT

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge

and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the ____ day of _____ at _____.

(Signature)

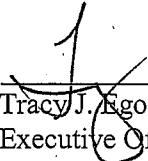
(Title)"

V. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

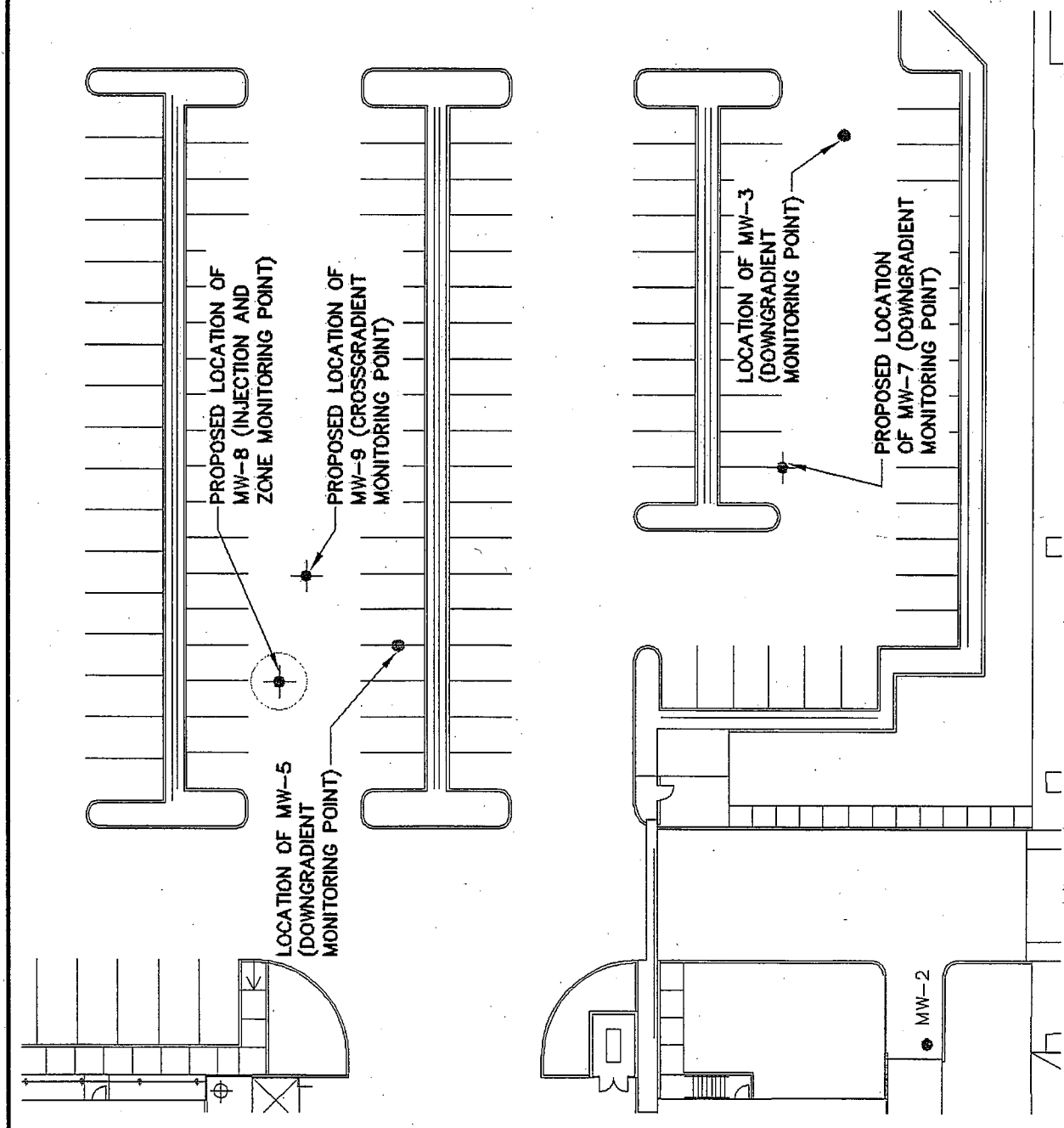
All records and reports submitted in compliance with this Order are public documents and shall be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region, upon requested by interested parties. Only proprietary information, and only at the request of the Discharger will be treated as confidential.

Ordered by:



Tracy J. Egoscue
Executive Officer

Date: December 19, 2008



LEGEND

- EXISTING NHBB GROUNDWATER MONITORING WELL
- ⊕ PROPOSED WELL LOCATION
- ESTIMATED RADIUS OF INJECTION

0 20 40
SCALE: 1" = 40'



**FINAL PILOT STUDY WORKPLAN
WDR APPLICATION**

NEW HAMPSHIRE BALL BEARINGS, INC
9730 INDEPENDENCE AVENUE CHATSWORTH, CA

**MALCOLM
PIRNIE**

MALCOLM PIRNIE, INC.
SEP 2008
Figure 1