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

MONITORING AND REPORTING PROGRAM NO. CI-8938
FOR
ITT INDUSTRIES, INC.
(**FORMER ITT BARTON INSTRUMENTS FACILITY**)
CITY OF INDUSTRY, CA

ENROLLMENT UNDER REGIONAL BOARD
ORDER NO. R4-2005-0030 (Series No. 023)
FILE NO. 102.0028

I. REPORTING REQUIREMENTS

A. The Discharger shall implement this monitoring program on the effective date of this enrollment (July 20, 2005) under Regional Board Order No. R4-2005-0030. The first monitoring report under this Program is due by March 3, 2006.

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

Reporting Period	Report Due
July — September 2005	October 15, 2005
October — December 2005	January 15, 2006
January – March 2006	April 15, 2006
April – June 2006	July 15, 2006
July — December 2006	January 15, 2007
January – June 2007	July 15, 2007

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 31 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. Each monitoring report shall contain a separate section titled “Summary of Non-Compliance” which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall be located at the front of the report and shall clearly list all non-compliance with discharge requirements, as well as all excursions of effluent limitations.

E. The Discharger shall comply with requirements contained in Section G of Order No. R4-2005-0030 "*Monitoring and Reporting Requirements*" in addition to the aforementioned requirements.

II. CARBOHYDRATE SOLUTION GROUNDWATER INJECTION MONITORING REQUIREMENTS

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

1. Location Map showing the injection points for the carbohydrate solution;

2. Written summary defining:

- Depth of injection points;
- Quantity of carbohydrate solution injected per injection point and per vertical spacing at each point; and
- Total amount of carbohydrate solution injected.

3. The proposed tracer test, including the location, and the submittal of daily logs to record compounds injected, concentration, volume, duration, and field parameters.

III. GROUNDWATER MONITORING PROGRAM

A groundwater-monitoring program shall be designed to detect and evaluate impacts associated with the injection activities (carbohydrate solution injection and one-time tracer solution injection). The following shall constitute the monitoring program for; well MW-6 (upgradient well of injection point), wells MW-9 and MW-10 (downgradient of injection point), also MW-7 and MW-8 (in the treament area) (Figure 2). These sampling stations shall not be changed and any proposed change of monitoring locations shall be identified and approved by the Executive Officer prior to their use. The Discharger shall conduct baseline sampling prior to carbohydrate solution injection and regular sampling with the required frequencies of the monitoring wells mentioned above for the following groundwater parameters:

CONSTITUENT	UNITS[1]	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS[2]
pH	pH units	grab	Semi-annual
Temperature	^{0}F	grab	Semi-annual
Oxidation-reduction potential	milivolts	grab	Semi-annual

[1] mg/L: milligrams per liter; µg/L: micrograms per liter; µmhos/cm: microohms per centimeter; ºF: degree Fahrenheit

[2] Quarterly for the first year and semi-annual thereafter.

Specific conductivity	µmhos/cm	grab	Semi-annual
Ferrous iron	µg/L	grab	Semi-annual
Dissolved Oxygen	µg/L	grab	Semi-annual
Acetone	µg/L	grab	Semi-annual
Tetrachloroethene	µg/L	grab	Semi-annual
Trichloroethene	µg/L	grab	Semi-annual
Cis-1,2-dichloroethene	µg/L	grab	Semi-annual
Trans-1,2-dichloroethene	µg/L	grab	Semi-annual
1,1-dichloroethene	µg/L	grab	Semi-annual
1,2-dichloroethane	µg/L	grab	Semi-annual
1,1,1-trichloroethane	µg/L	grab	Semi-annual
Carbon tetrachloride	µg/L	grab	Semi-annual
1,2,4-trimethylbenzene	µg/L	grab	Semi-annual
1,1,1,2-trichloroethane	µg/L	grab	Semi-annual
Vinyl chloride	µg/L	grab	Semi-annual
Benzene	µg/L	grab	Semi-annual
Ethylbenzene	µg/L	grab	Semi-annual
Toluene	µg/L	grab	Semi-annual
Total xylene	µg/L	grab	Semi-annual
Acetic acid	µg/L	grab	Semi-annual
Propionic acid	µg/L	grab	Semi-annual
Lactic acid	µg/L	grab	Semi-annual
Butyric acid	µg/L	grab	Semi-annual
Sulfide	µg/l	grab	Semi-annual
Total dissolved solids	mg/L	grab	Semi-annual
Sulfate	mg/l	grab	Semi-annual
Chloride	mg/L	grab	Semi-annual
Boron	mg/L	grab	Semi-annual

Manganese	m/L	grab	Semi-annual
Nitrate	mg/L	grab	Semi-annual
Carbon dioxide	mg/L	grab	Semi-annual
Total iron	µg/L	grab	Semi-annual
Green/yellow xanthene dye	µg/L	grab	Semi-annual
Potassium bromide	µg/L	grab	Semi-annual

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. Quarterly observation of groundwater levels first the first year and semi-annual thereafter, recorded to 0.01 feet mean sea level and groundwater flow direction.

IV. 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.

V. 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)"

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

Ordered by: _____ Date: July 26, 2005

Jonathan S. Bishop
Executive Officer