

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
1111 JACKSON STREET, ROOM 6040
OAKLAND 94607

Phone: Area Code 415
464-1235



Date:

File No.: 2199.9256 (MTC)

Ms. Sylvia Lee
P.I.E. Nationwide
P.O. Box 2408
Jacksonville, Florida 32203

NOTICE
OF

Tentative NPDES Permit / Waste Discharge Requirements

FOR

P.I.E. Nationwide

Emeryville, Alameda County

Comments or recommendations you may have concerning the
tentative order should be submitted in writing to
this Regional Board by September 5, 1988. Comments
received after this date cannot be given full consideration.

Sincerely,

Lester Feldman
Toxics Cleanup, Section Leader

MTC

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

TENTATIVE ORDER

NPDES NO. CA 0029441

WASTE DISCHARGE REQUIREMENTS FOR:

P.I.E. NATIONWIDE
EMERYVILLE, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. P.I.E. Nationwide, hereinafter called the discharger, by application dated October 30, 1986 with amendments to the application dated July 25, 1988, has applied for issuance of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. The discharger, a freight carrier, formerly used the site located in Emeryville, Alameda County as a truck terminal which involved freight transfer and truck maintenance. The location was also used as a warehouse office facility. The site is presently undergoing construction into becoming a retail shopping mall. See Attachment A for a site location.
3. The discharger has been involved with soil and groundwater investigations at the site since August 1986. The pollution onsite exists both in the soil and groundwater because of leaking underground storage tanks, above-ground storage tanks and product delivery lines. The soil has been determined to be contaminated with diesel, gasoline and other associated petroleum products. The groundwater samples have been analyzed to contain benzene; toluene; xylenes; phenols; and polynuclear aromatic hydrocarbons including fluorene, naphthalene, phenanthrene and pyrene.
4. The discharger proposes in situ remediation of the soil and groundwater hydrocarbon pollution by augmented bioreclamation using laboratory selected bacterial cultures.
5. This augmented bioreclamation system will consist of using bacterial cultures to biodegrade the diesel fuel polluting both the soil and groundwater. Treatment will involve both above ground bacterial bioreclamation of water extracted from the trenches and subterranean bioreclamation of the contaminated soil with aerated bacterial cultures injected into the ground.
6. The treated groundwater, designated Waste 001, will be discharged at a rate of 5760 gallons per day to a storm drain which is tributary to Temescal Creek and Central San Francisco Bay.

7. The discharger has been collaborating with the Alternative Technology and Policy Development Section of the Department of Health Services, Toxic Substances Control Division in Sacramento.
8. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on December 17, 1986. The Basin Plan contains water quality objectives for Central San Francisco Bay, and contiguous surface and ground water.
9. The beneficial uses of Temescal Creek and San Francisco Bay include:
 - a. Contact and non-contact water recreation
 - b. Wildlife habitat
 - c. Preservation of rare and endangered species
 - d. Estuarine habitat
 - e. Fish spawning and migration
 - f. Industrial process and service supply
 - g. Shellfishing
 - h. Navigation
 - i. Ocean commercial and sport fishing
10. The Basin Plan prohibits discharge of wastewater which has particular characteristics of concern to beneficial uses at any point where the wastewater does not receive a minimum initial dilution of at least 10:1 or into any nontidal water, deadend slough, similar confined water, or any immediate tributary thereof.
11. The Basin Plan allows for exceptions to the prohibitions referred to in Finding 10 above when it can be demonstrated that a net environmental benefit can be derived as a result of the discharge.
12. Exceptions to the prohibitions referred to in Finding 10 are warranted because the discharge is an integral part of a program to clean up polluted groundwater and thereby produce an environmental benefit, and because receiving water concentrations are expected to be below levels that would effect beneficial uses. Should studies indicate chronic effects, not currently anticipated, the Board will review the requirements of this Order based upon Receiving Water Limitation C.l.e.
13. The Basin Plan prohibits discharge of "all conservative toxic and deleterious substances, above those levels which can be achieved by a program acceptable to the Board, to waters of the Basin." The discharger's groundwater extraction and treatment system and associated operation, maintenance, and monitoring plan constitutes an acceptable control program for minimizing the discharge of toxicants to waters of the State.
14. Effluent limitations of this Order are based on the Basin Plan, State plans and policies, U.S. Environmental Protection Agency guidance, and best engineering judgement as to best available technology economically achievable.

15. Effluent limitations and toxic effluent standards established pursuant to Sections 301, 304 and 307 of the Clean Water Act, and amendments thereto are applicable to the discharge.
16. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
17. The Board has notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
18. The Board, in a public hearing, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that P.I.E. Nationwide, Emeryville, Alameda County, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The discharge of waste or hazardous materials in a manner which will degrade the water quality or adversely affect beneficial uses of the groundwaters of the State is prohibited.
2. The discharge shall be limited to treated groundwater and stormwater runoff which meet the effluent limitations.

B. Effluent Limitations

1. Waste 001 at the point of discharge into Temescal Creek shall not contain constituents in excess of the following limits:

Constituent	Units	Instantaneous Maximum
Benzene	ug/l	5
Ethyl benzene	ug/l	5
Toluene	ug/l	5
Total Xylenes	ug/l	5
Total Petroleum Hydrocarbons*	ug/l	100
Total PAH's**	ug/l	15

*This limit includes the concentration of total phenols detected.
 ** Total PAH's = total polynuclear aromatic hydrocarbons as detected by EPA (Environmental Protection Agency) Method 610.

2. Waste 001 at the point of discharge into Temescal Creek shall not contain constituents in excess of the following limits:

Constituent	Units	Instantaneous Maximum
BOD	mg/l	30
Total Suspended Solids	mg/l	30

3. The pH of the discharge shall not exceed 8.5 nor be less than 6.5.
4. TOXICITY: The survival of test fishes in 96-hour static renewal bioassays of the discharge of the effluent shall be a median of 90 percent survival and a 90 percentile value of not less than 70% survival.

Compliance of the bioassays shall be performed using the test fish species specified in Part B of the attached Self-Monitoring Program.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
 - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption whether at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be expected to be exceeded in waters of the State in any place within one foot of the water surface:
 - a. Dissolved oxygen: 7.0 mg/l minimum. The median dissolved oxygen concentration for any three consecutive months shall not be less than 80% of the dissolved oxygen content at saturation. When natural factors cause lesser concentration(s) than

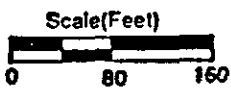
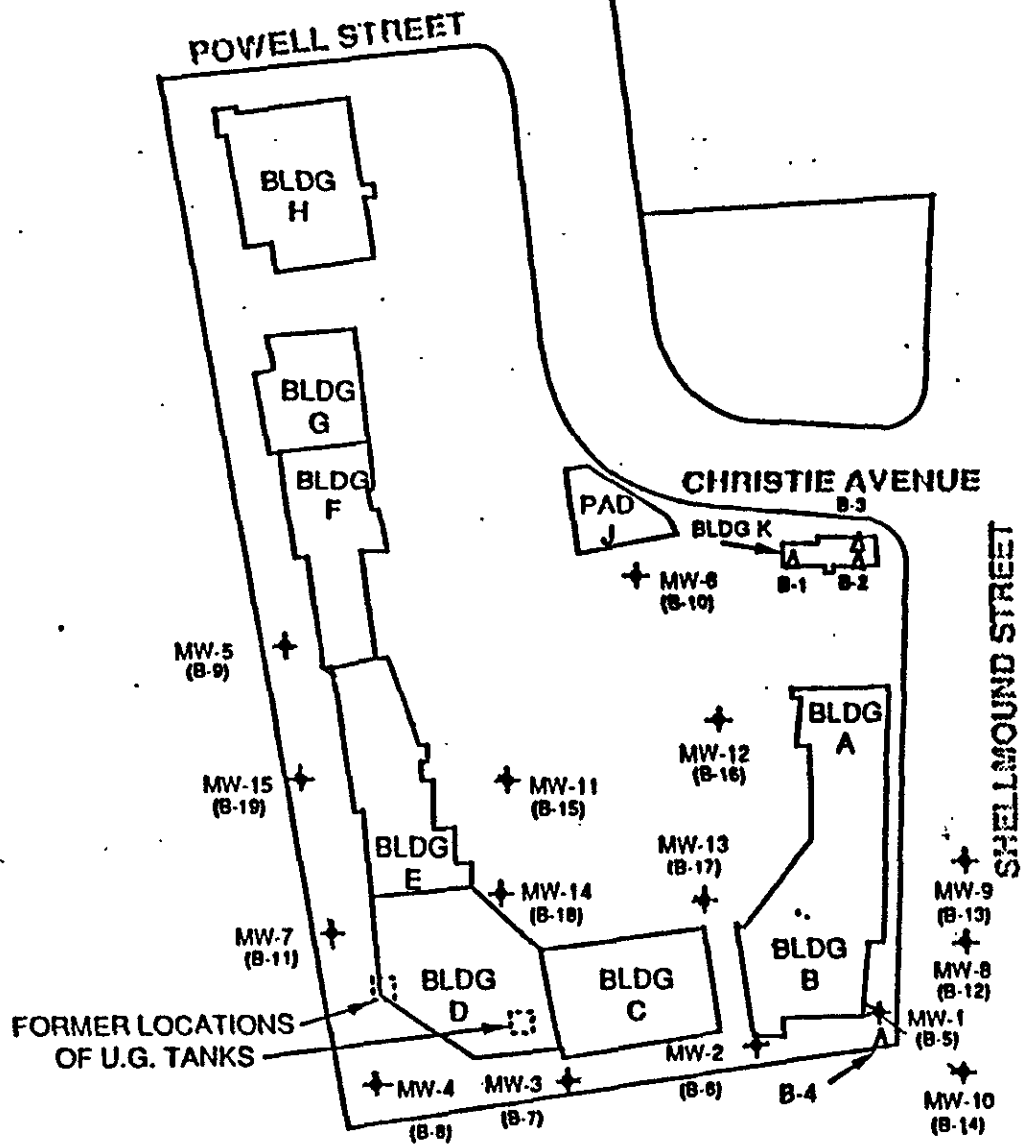
shall not become effective until such objection is withdrawn.

I, Steven R. Ritchie, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an order adopted by the California Water Quality Control Board, San Francisco Bay Region on _____.

STEVEN R. RITCHIE
EXECUTIVE OFFICER

Attachments:

Standard Provisions & Reporting Requirements, dated December 1986
Self-Monitoring Program
Site map



LEGEND

- ✦ Monitoring Well Location
- △ Boring Location

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

Attachment A:
Site Map
P.I.E. Nationwide
5500 Eastshore Freeway
Emeryville, Alameda County

DRAWN BY:	DATE: 8-5-88	DRWG. NO.
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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

P.I.E. Nationwide

Emeryville, Alameda County

NPDES NO. CA 0029441

ORDER NO. _____

CONSISTS OF

PART A

(dated December 1986
Mod. SBTD 1/23/87)

AND

PART B

PART B

for
P.I.E. NATIONWIDE
EMERYVILLE, ALAMEDA COUNTY

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

<u>Stations</u>	<u>Description</u>
I-1	At a point in the groundwater extraction/ treatment system immediately prior to treatment

B. EFFLUENT

<u>Stations</u>	<u>Description</u>
E-1	At a point in the groundwater extraction/ treatment system immediately following the treatment process (Waste 001)

C. RECEIVING WATERS

<u>Stations</u>	<u>Description</u>
C-1	At a point in Temescal Creek at least 100 feet but no more than 200 feet downstream from the outfall discharge point

II. BIOASSAY REQUIREMENTS

- A. The fish species to be used for compliance of the bioassay shall be rainbow trout. If the discharge is determined to be too saline for rainbow trout, an alternate fish species shall be chosen as acceptable by the Executive Officer.

III. SCHEDULE OF SAMPLING AND ANALYSIS

- A. The schedule of sampling and analysis shall be that given in Table I.

IV. Miscellaneous reporting

If any chemical additives are proposed to be used in the operation of the treatment system it shall be reported 30 days prior to their use.

V. MODIFICATION TO PART A

A. Deletions:

Sections D.2.e, D.2.g, E.1.e, E.3, and E.4.

B. Modifications:

G.4 Written reports under G.4 shall be filed each calendar quarter, once in January, April, July and October.

G.4.b The report shall be prepared in a format acceptable to the Executive Officer. The example in Appendix A is provided as guidance.

G.4.e The report will be prepared in a format acceptable to the Executive Officer. NPDES Discharge Monitoring Report, EPA Form 3320-1, is provided as guidance.

G.4.e.1 Influent and Effluent Data Summary Reports shall be submitted only to the Regional Board Executive Officer, not to the EPA.

G.5 By January 30 of each year, the discharger shall submit, in place of the quarterly report, an annual report to the Regional Board covering the previous year.

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 88- .
2. Was adopted by the Board on .
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer or Regional Board.

STEVEN R. RITCHIE
EXECUTIVE OFFICER

Attachment: Table I

TABLE 1

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	I-1	E-1	C-1										
Type of Sample	G	G	G										
Flow Rate (gal/day)		D											
Dissolved Oxygen (mg/l and % saturation)		M	Q										
Un-ionized Ammonia (mg/l as N)		2/Y	2/Y										
Temperature (°C)		2/Y	2/Y										
Fish Toxicity, 96-hour (% survival)		2/Y											
pH (units)		M	Q										
EPA Method 602 (ug/l) (1)	M*	M*	Q										
EPA Method 610 (ug/l) (2)	M*	M*	Q										
Total Phenols (ug/l)	M*	M*	Q										
Total Petroleum Hydrocarbons (ug/l)	M*	M*	Q										
Priority Pollutant Scan (3)		A*											
Metal Toxic Pollutants (4)	A*	Q*											
BOD, 5-day, 20°C (mg/l)		M*											
Suspended Solids (mg/l)		M*											

LEGEND FOR TABLE

- G = Grab Sample
- D = Once a day
- M = Once each month
- Q = Quarterly, once in March, June, September, and December
- 2/Y = Once in June and December
- M* = Twice a month for the first three (3) months of startup of operation; reduced to once a month thereafter.
- A* = Once within three (3) weeks after startup or upon commencement of discharge; annually thereafter.
- Q* = Once within three (3) weeks after startup or upon commencement of discharge; quarterly thereafter.

(1) For the detection of benzene, toluene, ethyl benzene and xylenes.
 (2) For the detection of polynuclear aromatic hydrocarbons.
 (3) Test results may be used to satisfy NPDES Form 2C.
 (4) As defined in NPDES Form 2D.

MTC

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

1111 JACKSON STREET, OAKLAND, CA (415) 464-1255

NOTICE OF APPLICATION AND PUBLIC HEARING FOR
DISCHARGE PERMIT

The following discharger has filed an application for issuance of a permit under the National Pollutant Discharge Elimination System:

P.I.E. NATIONWIDE
EMERYVILLE, ALAMEDA COUNTY -
DISCHARGE OF TREATED GROUNDWATER INTO SAN FRANCISCO BAY


The Board's staff has prepared a Tentative Permit for the above discharger, containing effluent and receiving water limitations and special provisions, in accordance with the Federal Clean Water Act, and the California Water Quality Control Act. The Regional Board intends to consider adopting the Tentative Permit during a meeting which will commence at the time and place indicated:

DATE: September 21, 1988
TIME: 9:30 a.m.
PLACE: Assembly Room, First Floor, State Building, 1111
Jackson Street, Oakland, California

Persons wishing to file written comments on, or objections to, the limitations or provisions of the Tentative Permit, or other aspects of this matter, are requested to do so within twenty days after the date of this Notice so that the comments may be considered in preparing this matter for presentation to the Regional Board.

Interested persons are invited to attend and express their views on this matter at the Public Hearing. The Board will hear oral comment, but requests that written confirmation thereof be filed before or during the hearing, to assure accuracy of the record.

The Application for the Permit, the Tentative Permit, comments received and related documents may be inspected and copied at the Regional Board office. Contact Michael Chee at (415) 464-1255 for any questions regarding this matter. Please bring the foregoing to the attention of any persons known to you who would be interested in this matter.


Steven R. Ritchie
Executive Officer

8/4/88
DATED _____