CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 89-066
NPDES NO. CA0105082

WASTE DISCHARGE REQUIREMENTS
FOR
FORD NEW HOLLAND, INCORPORATED
BLYTHE GROUND WATER TREATMENT FACILITY
Blythe - Riverside County

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. Ford New Holland, Incorporated (hereinafter referred to as the discharger), 500 Diller Avenue, New Holland, Pennsylvania 17557, submitted an NPDES application for a permit to discharge wastewater dated May 31, 1989. Said application is assigned Permit No. CA0105082.

2. Site investigations show that the ground water beneath the site has been polluted by dissolved petroleum hydrocarbons, and dissolved benzene, toluene, ethylbenzene and xylenes. The pollution is the result of an unauthorized release of unknown quantities of diesel fuel and gasoline which was reported in January, 1988.

3. Five ground water monitoring wells have been installed on-site. Ground water monitoring data indicates that a plume of dissolved product extends laterally 30 to 70 feet from the source and there is no free product floating on the ground water table. The lateral and vertical extent of the pollution has been defined.

4. The discharger has proposed to begin cleanup of the polluted ground water by operating an on-site recovery system. Based on the design criteria and the data from the ground water investigation, it is probable that the proposed cleanup system will remediate all polluted ground water. The performance of the cleanup system will be evaluated to determine if any additional extraction wells or treatment will be required.

5. This site is subject to Cleanup and Abatement Order No. 88-144, and Monitoring and Reporting Program No. 88-144, issued on October 24, 1988 by the Executive Officer.

6. The discharger proposes to discharge an average daily flow of 15 gallons-per-minute (gpm) of treated ground water from a ground water treatment facility into the City of Blythe storm drain pipe which discharges into Lovekin Drain in the SW¼ of the NE¼ of Section 5, T7S, R23E, SBB&M. The polluted ground water will be pumped from one extraction well and treated using carbon adsorption. The treated ground water will flow from Lovekin Drain, to East Side Drain, to

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Township Drain, which flows to Palo Verde Outfall Drain, and which discharges into the Colorado River about 28 miles south-southwest of Blythe.

7. The discharge meets the "no salt" discharge requirement of less than one ton per day discharged salt load reaching the main stream of the Colorado River, established in the "Intercepted Ground Water Policy for Implementation of the Colorado River Salinity Standards Through the NPDES Permit Program", as adopted by the Colorado River Basin Salinity Control Forum on October 20, 1982.

8. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted by the Regional Board on November 14, 1984. The Basin Plan contains water quality objectives for the Palo Verde Valley Drains, the Palo Verde Lagoon and Outfall Drain, and the Colorado River.

9. The existing and potential beneficial uses of the Palo Verde Valley Drains include:

   a. Recreation - non-water contact (unauthorized use)
   b. Warm water habitat
   c. Wildlife habitat

10. The existing and potential beneficial uses of Palo Verde Lagoon and Outfall Drain include:

    a. Recreation - water contact (unauthorized use in Riverside County)
    b. Recreation - non-water contact (unauthorized use in Riverside County)
    c. Warm water habitat
    d. Wildlife habitat

11. The existing and potential beneficial uses of the Colorado River include:

    a. Municipal and Domestic Supply
    b. Agricultural Supply
    c. Aquaculture
    d. Industrial Service Supply
    e. Ground Water Recharge
    f. Recreation - Water Contact
    g. Recreation - Non-water Contact
    h. Warm Water Habitat
    i. Wildlife Habitat
    j. Hydropower Generation

12. The maximum discharge limitations specified in this permit are based upon State Department of Health Services action levels, primary drinking water standards, the Environmental Protection Agency's Water Quality Criteria, and/or best available technology economically feasible.

13. The issuance of waste discharge requirements for the discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100), Division 13, of the Public Resources Code pursuant to Section 13389 of the California Water Code. Code.

14. The issuance of waste discharge requirements for the discharge is categorically exempt from the provisions of Chapter 3 (commencing with Section 15000), Division 6, Title 14 (Natural Resources) of the California Code of Regulations pursuant to Section 15107 of that Chapter (Class 8: Actions by Regulatory Agencies for the Protection of the Environment).

15. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

16. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Effluent Limitations

1. Wastes discharged shall be limited to treated ground water, as proposed in the findings.

2. The effluent at the point of discharge to the storm drain pipe shall not contain constituents in excess of the following limits:

Constituent	Unit	Instantaneous Maximum
a. Benzene	µg/l	1.0
b. Toluene	µg/l	1.0
c. Xylene(s)-total	µg/l	10.0
d. Ethylbenzene	µg/l	10.0
e. Total Petroleum Hydrocarbons as Gasoline and Diesel	µg/l	50.0
f. Lead	µg/l	10.0

3. The pH of the discharge shall not exceed 9.0 nor be less than 6.0.

4. Bioassays shall be performed quarterly to evaluate the toxicity of the discharged wastewater in accordance with the following procedures:

   a. Bioassays shall be conducted on a sensitive fish species and an invertebrate species as approved by the Regional Board Executive Officer. Pimephales promelas (fathead minnow) and Ceriodaphnia are suggested test species which may be utilized. The bioassays shall be performed according to the protocol given in EPA/600/4-84-014, Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms.

   b. Said bioassay tests shall be performed quarterly for a period of at least one year (minimum of four tests per organism).

   c. When the program described in 4.a and 4.b, above, has been completed, this permit will be reopened. At that time, effluent variability will be calculated and a numerical effluent limit established for toxicity. Compliance monitoring shall then be based on annual bioassays of the organism which showed greater sensitivity during the effluent characterization program. Selection of the more sensitive species will be made by the Regional Board.

B. Receiving Water Limitations

1. The discharge of wastewater shall not cause the following conditions to exist in waters of the State at any place:

   a. Settling to form objectionable deposits;

   b. Floating as debris, scum, grease, oil, wax, or other matter that may cause nuisances;

   c. Producing objectionable color, odor, taste, or turbidity;

   d. Toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life; and

   e. Increase the total dissolved solids content of receiving waters, unless it can be demonstrated to the satisfaction of the Regional Board that such an increase in total dissolved solids does not adversely affect beneficial uses of receiving waters.

2. The discharge of wastewater shall not cause the following limits to be exceeded in waters of the State in any place:

   a. Dissolved Oxygen: The concentration of dissolved oxygen shall not be reduced below a 5.0 mg/l minimum.

   b. pH: The pH shall not be depressed below 6.0 nor raised above 9.0.

c. Un-ionized Ammonia: The concentration of un-ionized ammonia shall not exceed a maximum at any time of 0.2 mg/l as N.

3. This discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Regional Board will revise and modify this Order in accordance with such more stringent standards.

C. Provisions

1. Neither the treatment nor the discharge of wastewater shall create pollution or nuisance as defined in Division 7 of the California Water Code.

2. The discharger shall comply with all sections of this Order immediately upon discharge.

3. The discharger shall ensure that all site operating personnel are familiar with the content of this Order.

4. The discharger shall notify the Regional Board if any activity by the discharger has occurred or will occur which would result in the discharge of any pollutant which is not limited by this Order.

5. The discharger shall submit an operation and maintenance plan acceptable to the Executive Officer prior to the addition of chemicals to the waste stream for the control of scaling or biological growth.

6. The discharger shall comply with the attached "Monitoring and Reporting Program No. 89-066", and future revisions thereto, as specified by the Executive Officer. "Monitoring and Reporting Program No. 89-066" supersedes "Monitoring and Reporting Program No. 88-144", issued on October 24, 1988.

7. Prior to "on line" discharge from the facility, laboratory analysis of "trial run" treated effluent will be performed to confirm the wastewater quality is within the limits specified by this permit. Effluent containing contaminants in excess of the limits will not be discharged to the City of Blythe storm drain pipe. Should contaminated levels in treated wastewater exceed permit specifications, alternative disposal or additional treatment followed by substantiating laboratory analysis shall be required.

8. The discharger shall comply with all items of the attached "Standard Provisions", and future revisions thereto, as specified by the Executive Officer.

9. The discharge of wastewater containing any carcinogen or reproductive toxin listed by the Governor, pursuant to Health and Safety Code

Sections 25249.5 through 25249.13, The Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65), where such chemicals may pass into any source of drinking water is prohibited.

10. Prior to any change of ownership of this operation, the discharger shall transmit a copy of this Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.

11. This Order expires September 20, 1994, and the discharger shall file a complete Report of Waste Discharge in accordance with Title 23, California Code of Regulations, not later than 180 days in advance of such date as an application for issuance of new waste discharge requirements.

12. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Clean Water Act, or amendments thereto, and shall become effective at the end of ten (10) days from date of hearing provided the Regional Administrator, U.S. Environmental Protection Agency, has no objection.

I, Phil Gruenberg, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on September 20, 1989.

Phil Gruenberg
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 89-066
FOR
FORD NEW HOLLAND, INCORPORATED
BLYTHE GROUND WATER TREATMENT FACILITY
Blythe - Riverside County

Location of Discharge: SW¼, NE¼, Section 5, T7S, R23E, SBB&M.

EFFLUENT MONITORING

Treated ground water discharged into the City of Blythe storm drain pipe shall be monitored for the following constituents. All samples shall be taken between 6 a.m. and 6 p.m. A sampling station shall be located where representative samples of the effluent can be obtained.

Constituent	Unit	Type of Sample	Sampling Frequency
Flow discharged to drain	GPD	-	Continuous flow readings: Report average daily flow based on weekly total.
Un-ionized Ammonia	mg/l	Grab	Daily for 5 days; monthly thereafter.
pH	pH Units	Grab	Daily for 5 days; monthly thereafter.
Temperature	Degrees C	Grab	Daily for 5 days; monthly thereafter.
Priority Pollutant Metals	mg/l	Grab	Once during first day of operation; biannually thereafter.
EPA 602 for: Benzene Toluene Xylene(s)-total Ethylbenzene	µg/l	Grab	Daily for 5 days; monthly thereafter.
Total Dissolved Solids	mg/l	Grab	Daily for 5 days; monthly thereafter.
Modified EPA 8015 for Petroleum Hydrocarbons as Gasoline and Diesel	µg/l	Grab	Daily for 5 days; monthly thereafter.

Constituent	Unit	Type of Sample	Sampling Frequency
EPA 601	µg/l	Grab	Once during first day of operation; biannually thereafter.
Toxicity	-	-	Quarterly for the first year; annually thereafter.

INFLUENT MONITORING

Extracted ground water shall be monitored for the following constituents immediately prior to any treatment. All samples shall be taken between 6 a.m. and 6 p.m. A sampling station shall be located where representative samples of the influent can be obtained.

Constituent	Unit	Type of Sample	Sampling Frequency
EPA 602 for: Benzene Toluene Xylene(s)-total Ethylbenzene	µg/l	Grab	Daily for 5 days; monthly thereafter.
EPA 601	µg/l	Grab	Once during first day of operation; biannually thereafter.

RECEIVING WATER MONITORING

1. Water in Lovekin Drain shall be monitored for the following constituents. All samples shall be taken between 6 a.m. and 6 p.m. The sampling station shall be maintained where representative samples of mixed water can be obtained. Said sampling station shall be located midstream in Lovekin Drain at a point at least 100 feet, but not more than 200 feet, downstream from the point of discharge. If, due to low flow conditions, it is not possible to obtain a water sample in the reach 100 to 200 feet downstream from the point of discharge then, the sample shall be taken from water ponding at the point of discharge. This condition shall be noted in the periodic reports submitted to the Board.

Constituent	Unit	Type of Sample	Sampling Frequency
pH	pH units	Grab	Once during the first week; quarterly thereafter.
Un-ionized Ammonia	mg/l	Grab	Once during the first week; quarterly thereafter.
Temperature	degrees C	-	Once during the first week; quarterly thereafter.
Dissolved Oxygen	mg/l	Grab	Once during the first week; quarterly thereafter.
EPA 602 for: Benzene Toluene Xylene(s)-total Ethylbenzene	µg/l	Grab	Once during the first week; quarterly thereafter.
Modified EPA 8015 for Petroleum Hydrocarbons as Gasoline and Diesel	µg/l	Grab	Once during the first week; quarterly thereafter.
EPA 601	µg/l	Grab	Once during the first week; quarterly thereafter.

REPORTING

1. The discharger shall inform the Regional Board concerning the location of all sampling stations for the above monitoring.

2. Monthly and quarterly monitoring data shall be reported quarterly and submitted to the Regional Board by January 15, April 15, July 15, and October 15, of each year. Bi-annual reports shall be submitted by January 15 and July 15 of each year. Annual reports shall be submitted by January 15 of each year

   Submit monitoring reports to:

   California Regional Water Quality Control Board
   Colorado River Basin Region
   73-271 Highway 111, Suite 21
   Palm Desert, CA 92260

ORDERED BY: Phil Hamburg
Executive Officer

September 20, 1989
Date

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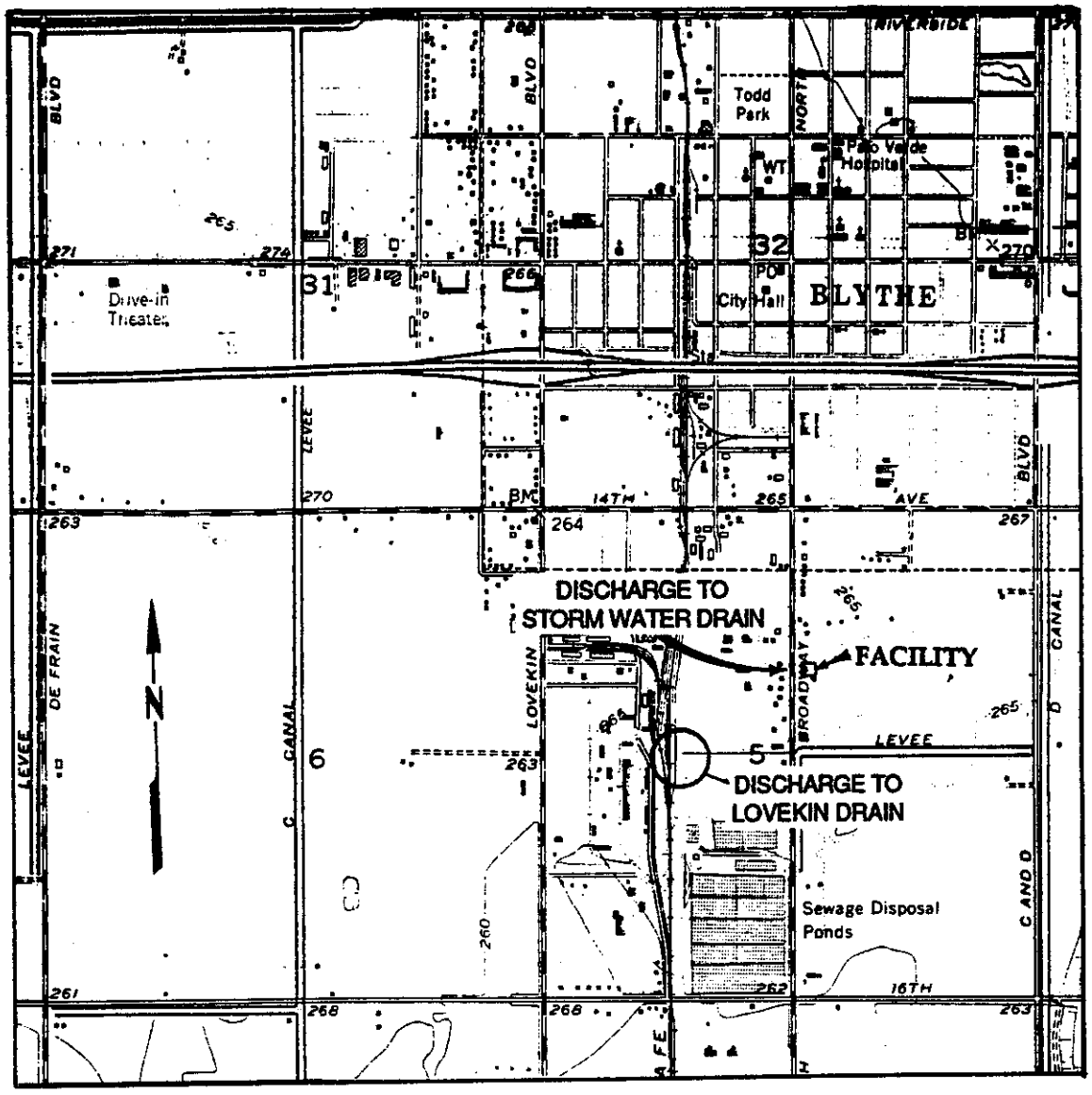

SITE MAP

FORD NEW HOLLAND, INCORPORATED
BLYTHE GROUND WATER TREATMENT FACILITY
Blythe - Riverside County

SW¼, NE¼, Section 5, T7S, R23E, SBB&M
USGS Blythe 7.5 min. Topographic Map

Order 89-066