

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

ATTACHMENT A

TO

GENERAL ORDER NO. 5-00-119

FOR DISCHARGE OF GROUND WATER FROM CLEANUP OF PETROLEUM FUEL  
POLLUTION  
TO SURFACE WATERS

APPLICATION REQUIREMENTS

An NPDES Application for Permit to Discharge (Forms 1 and 2D), a Report of Waste Discharge (Form 200 plus supplemental information) and filing fee must be submitted for each proposed discharge. The Report of Waste Discharge shall be prepared by a California Registered Civil Engineer, Registered Geologist, or Certified Engineering Geologist and shall provide at least the following information or if a Problem Assessment Report has been approved it may be submitted. The Report of Waste Discharge shall be signed by a person meeting the qualifications listed in Reporting Requirements D.6 of Standard Provisions. Additional data may be requested for specific sites.

**A. Wastewater treatment system and characteristics**

1. An evaluation of land disposal options, including discharge to a municipal wastewater collection system, and justification for selecting a surface water disposal alternative.
2. Description of event(s) which caused the ground water pollution, including type and source of the contaminants and date(s) when the discharge occurred or was discovered.
3. Narrative and schematic descriptions of the proposed extraction, treatment, and disposal systems. If the proposed treatment system uses activated carbon, submit an estimate of the breakthrough time for each carbon treatment unit.
4. A map(s) showing the location of the facility, plume, extraction well(s), monitoring wells, treatment system, disposal facilities, site boundaries, and the flow path of the proposed discharge to a major river or lake.
5. Any water supply wells, and surface waters within 0.5 miles of the site shall be identified on the map.
6. The anticipated average and maximum flows from the treatment system, and the design flow of the treatment and disposal systems.
7. An operation plan describing general operations and maintenance procedures, process controls, monitoring and pumping rates shall be supplied.
8. A minimum of one of each of the following analyses of the ground water which will be treated and discharged:
  - a. Chlorinated volatile hydrocarbons (EPA Method 601 or 8260)
  - b. Aromatic volatile hydrocarbons (EPA Method 602 or 8020)

ATTACHMENT A  
ORDER NO. 5-00-119  
APPLICATION REQUIREMENTS  
GENERAL ORDER FOR DISCHARGE OF  
GROUND WATER FROM CLEANUP OF  
PETROLEUM FUEL POLLUTION  
TO SURFACE WATERS

-2-

- c. Total Petroleum Hydrocarbons in the Gasoline and Diesel ranges (Method 8015/5030). Additional or alternative TPH analyses may be required if the suspected pollutants contain hydrocarbon fractions outside the range of these tests.
- d. Lead, soluble lead or tetraethyl lead (EPA Method 1639/200.9 or equivalent)
- e. Chlorinated pesticides (EPA Method 608 or 8080)
- f. General mineral analysis, including electrical conductivity, total dissolved solids, chloride, sulfate, nitrate and pH.

**B. Site hydrogeology**

1. Depth to ground water, including seasonal variations, if known.
2. Direction and gradient of ground water flow, if known.
3. Vertical and lateral extent of pollution, if known, including details on the location, construction, and analytical results from ground water monitoring wells used to define the plume. (Note: Full definition of the plume is not a necessary condition for compliance with this Order.)
4. A statement on the potential impact of the wastewater discharge on the containment and rate of movement of the ground water plume.
5. Effects of the extraction system on the ground water gradient and the plume.
6. An estimate of the anticipated length the time extraction will be needed.

**C. Receiving Water**

1. Description of the receiving waters including general flow conditions, beneficial uses, aquatic resources, and downstream water Users.
2. Demonstration of compliance with Section E. of the permit, Receiving Water Limitations.
3. If proposed discharge is to a publicly owned or operated storm water collection or conveyance system the applicant must comply with D 2 below.

**ATTACHMENT A**

-3-

ORDER NO. 5-00-119

APPLICATION REQUIREMENTS

GENERAL ORDER FOR DISCHARGE OF

GROUND WATER FROM CLEANUP OF

PETROLEUM FUEL POLLUTION

TO SURFACE WATERS

**D. Public Notice Requirements**

1. The Applicant shall submit to the Board a list of names and mailing addresses of nearby residents, including all adjacent property owners, and all residents within a 500 foot radius of the treatment system and discharge point.
2. Discharges to publicly owned and operated storm water collection and conveyance systems must have written approval (submitted with the application) of the public agency that owned or operates the facility.
3. The applicant shall send letters, in an approved format, to each of the above interested parties listed in 1 and 2 above, the local County Health Department and the California Department of Fish and Game describing the proposed project and including the following information:
  - a) Describe the cleanup project and the involved chemicals of concern,
  - b) Location of treatment system and discharge (both narrative and on map),
  - c) Explain permit application and project implementation time schedule,
  - d) Describe permit discharge limits and monitoring program,
  - e) State in letter that interested parties have two weeks from date of letter to submit comments to Regional Board office.
4. The Applicant shall submit a copy of the "Public Notification Letter" described in 3 above and shall submit a certification on who was sent a copy of the letter.

16 June 2000  
GKV/lm