CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

VOC General NPDES Permit Notice of Intent Contents

ORDER NO. R2-2004-0055
NPDES NO. CAG912003

General Waste Discharge Requirements for Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Volatile Organic Compounds

The Notice of Intent (NOI) is an application package that contains all the information required by the Executive Officer to determine whether the proposed discharge is eligible to be authorized under this general permit. The NOI for each point of proposed discharge to a storm drain system shall include the following materials:

5. Reclamation: An effluent reclamation feasibility study for demonstration of compliance with the Board Resolution No. 88-160. This resolution requires an effluent reuse or reclamation evaluation to assess the practicality of reclaiming all or a portion of the treated effluent from the site. Reclamation alternatives may include irrigation of landscaping or agriculture, dust control or soil compaction on construction sites, decorative pond or fountain supply, or industrial water supply. The reclamation evaluation must demonstrate that an effort was made to notify potential users in the area of the availability of reclaimed water, and that all alternatives were explored. The evaluation must include name, address, and type of businesses contacted and their response.

   If a portion of the extracted and treated groundwater is to be reclaimed, describe the proposed reuse, including:

   a. The volume of water planned for reuse;
   b. The type of reuse;
   c. The reuse location and areal extent;
   d. The method of transport and application (e.g. fixed piping and spray application);
   e. Schedule of operation (e.g. time of day, days of week, seasonal changes);
   f. Precautions planned to minimize runoff and human contact;
   g. Duration of reuse activity - temporary or permanent project;
   h. Proposed method(s) of monitoring reused groundwater; and
   i. Name, address, and telephone number of user(s), if different than supplier.

   Note: Reclamation involving engineered recharge or reinjection of treated groundwater will require a separate application to the Board.

6. Discharge to POTW: If reuse or reclamation is demonstrated to be technically or

economically infeasible, then discharge to a Publicly Owned Treatment Works (POTW) is encouraged. If access to the local POTW is denied or is infeasible, you must provide documentation of this fact (i.e. a letter from the POTW or a written summary of your discussions with POTW officials).

7. NPDES Application Forms:

    a. Completed U.S.EPA application form 1 (General Information) http://www.epa.gov/npdes/pubs/form_1.pdf and
    b. Completed U.S.EPA application form 2D (New Sources and New Dischargers) http://www.epa.gov/npdes/pubs/3510-2D.pdf. Existing dischargers should use form 2C http://www.epa.gov/npdes/pubs/3510-2C.pdf instead of Form 2D

    All forms must be signed by an appropriate corporate officer, general partner, principal executive officer, or ranking elected official (see page I-4 of form 2D for more information). In no case should the consultant sign the forms.

8. Analytical Results: The NOI shall include analytical results, including the date the samples were taken, for influent (may be a weighted average of individual extraction wells for non-operating facilities) and effluent (not required for proposed discharges with no prior operating experience) as indicated in the following table.

Analyses	**Method of Analysis ***
Volatile Organic Compounds	US EPA Method 8260
Semi-Volatile Organic Compounds**	US EPA Method 8270
Petroleum Hydrocarbons**	Modified US EPA Method 8015
Ethylene Dibromide**	US EPA Method 504
Polynuclear Aromatic Hydrocarbon **	US EPA Method 610
Perchlorate***	US EPA Method 314
Mercury, Cadmium, Silver, Antimony, Beryllium, Chromium, Copper, Lead, Nickel, Selenium, Thallium, Zinc, Arsenic, and Cyanide.	US EPA Methods (various)
Others (if there is evidence of a release or being present)	US EPA Methods (various)
* or equivalent ** not required if no evidence of this release *** not required if no evidence of solid rocket fuel release or other Perchlorate use All chemical analyses shall be performed according to the appropriate U.S. EPA Methods by a certified laboratory and copies of laboratory analytical reports must be submitted	

5. Filing Fee: Code of California Regulations, Title 23, Division 3, Chapter 9, Article 1, Section

2200 D, fee schedule dated October 17, 2003, requires the dischargers regulated under this general NPDES permit to pay an annual fee based on one of the three categories listed in subsection (b)(9) plus applicable surcharges: The discharges regulated under this general NPDES permit are categorized as Category 1. The discharges under this category require treatment systems to meet priority toxic pollutant limits and that could impair beneficial uses if limits are violated. This fee schedule also requires an ambient water-monitoring surcharge of 18.5% of the calculated fee to be added the Category 1 fee. The fee for this category is currently $4,800 plus $888 surcharge. This fee and/or surcharge may change in future. New dischargers shall submit a check for $5,688, which is the fee for processing the application and operation during the remainder of the fiscal year (July 1st through June 30th) and part of the following fiscal year. The check shall be made **payable to the State Water Resources Control Board** and submitted with the application package.

6. Operation and Maintenance (O & M) Manual: Each discharger shall submit, as part of the application for proposed discharge, a report, to the satisfaction of Executive Officer, certifying the adequacy of each component of the proposed treatment facilities along with the associated O & M Manual. This certification report shall contain an item-by-item analysis of the permit's requirements, based on accepted engineering practice, of how the process and physical design of the treatment facilities will ensure compliance with this Order. Each report shall also certify that (a) all treatment facility startup and operation instruction manuals are adequate and available to operating personnel, (b) adequate treatment facility maintenance and testing schedules are included in the treatment facility O & M Manual, and (c) influent and effluent sampling locations or ports are located in areas where samples representative of the waste stream to be monitored can be obtained. The design engineer shall affix his/her signature and engineering license number to this certification report.

   Proper Operation and Maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls and appropriate quality assurance procedures. All systems, both those in service and reserve, shall be inspected and maintained on a regular basis. Records shall be kept of the inspection results and maintenance performed and made available to the Board. All of the above procedures shall be described in an O & M Manual. The O & M Manual shall also contain a description of the safeguards to assure that, should there be reduction, loss, or failure of electric power, the dischargers will be able to comply with the terms and conditions of this Order and the authorization letters from the Executive Officer. The O & M Manual shall describe preventive (fail-safe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. These plans shall identify the possible sources of accidental loss, untreated or partially treated waste bypass, and polluted drainage. Loading and storage areas, power outage, waste treatment unit outage, and failure of process equipment, tanks and pipes shall be considered. If the O & M Manual would be finalized after start-up of the treatment system, it should be stated so in the NOI cover letter, and the final O & M Manual should be submitted no later than 60 days after initiation of this discharge.

7. Other Information: The NOI shall include the following items:
    a. A brief discussion of the cleanup project, including a description and schematics of the extraction system design;
    b. The estimated average and maximum daily flow rates, and the maximum capacity of the treatment system;
    c. Maps indicating extraction well locations, treatment facilities, the point(s) of initial discharge, and the path to the ultimate location of the discharge;
    d. Documentation that local storm water management agency has been notified of the proposed discharge (new discharge only); and
    e. Chemical Additives: If use of any chemical in the treatment, operation, and/or maintenance of the treatment units is needed, name(s) of the chemical, method of chemical application and disposal of any chemicals in the treatment, or operation and maintenance of the treatment units, and toxicity data of the chemical should be provided (attach related Material Safety Data Sheets).