

# DAHL

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MPCA, HAZARDOUS  
WASTE DIVISION

December 5, 1990

Mr. Robert Nordquist  
Staff Engineer-Industrial Waste Division  
Metropolitan Waste Control Commission  
230 East 5th Street  
Saint Paul, MN 55101

*file only  
Leak 858*

Dear Mr. Nordquist:

Re: Application to Discharge Treated Groundwater to the Sanitary Sewer, at the Rapid Oil Change, Formerly a Conoco Store, 1126 South Robert, West St. Paul, Minnesota.

Enclosed is an Application for an Industrial Discharge Permit. Dahl & Associates, Inc. (DAHL) is currently installing a ground-water recovery system at the above referenced site. This system is designed to remediate petroleum contaminated ground-water via a pump and treat recovery system. The Minnesota Pollution Control Agency has received and approved an Emergency Petroleum Release Remedial Investigation and Corrective Action Design Report documenting the distribution of soil and ground-water contamination at the above referenced site. Treated ground-water is to be discharged to the sanitary sewer upon approval of the enclosed permit application.

Laboratory analysis of the system effluent, to be discharged to the sanitary sewer, are not available at this date, since the system is not yet installed. Laboratory reports are enclosed which contain analysis of ground-water samples collected from monitoring wells located near the proposed recovery well location. The analyses shows that the ground-water to be removed contains petroleum constituents above Metropolitan Waste Control Commission (MWCC) discharge guidelines.

Prior to discharge, the recovered water will pass through a product-water separator and an air stripper in series. This treated water is to be discharged to the sanitary sewer upon approval by the MWCC.

The recovery system designed, will be started long enough to conduct pump test and to obtain representative samples of the influent, mid-treatment, and effluent discharges. The discharge samples will be submitted for laboratory analysis on a 3-5 day rush. After

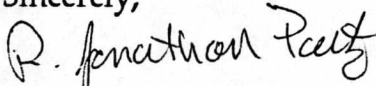
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the samples are collected, the system will be shut down pending issuance of the discharge permit. Upon completion of the laboratory analyses the results will be submitted to the MWCC. If MWCC discharge guidelines are not met at that time, the system will be calibrated until the discharge from the system meets MWCC guidelines.

Maps showing the direction of ground-water flow, area of inferred ground-water contamination, ground-water recovery system layout, and the typical process flow diagram for the ground-water recovery system are enclosed with the application. Slug-tests performed in monitoring wells 2 and 4 indicated a hydraulic conductivity of 14 gallons/day/sq.ft. Recovery test data is enclosed with the application.

Thank you for your time and attention to this request. Please contact me if you have any questions regarding the information presented here or proposed operations at this site in general.

Sincerely,



R. Jonathan Paetz  
Assistant Project Manager

rjp

cc: Ms. Kelly S. Ahlschwede, Conoco, Inc.  
Mr. David A. Scheer, MPCA

enclosures 1) MWCC Industrial Discharge Application  
2) Laboratory Analysis  
3) Recovery Rate Test Results