

# DAHL

& ASSOCIATES, INC.

Environmental Consultants, Contractors & Engineers

COPY

Sept 3, 1992

Don Hove  
Assistant Fire Chief  
City of West St. Paul  
1616 Humboldt Ave.  
West St. Paul, MN 55118

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MPCA, HAZARDOUS  
WASTE DIVISION

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Dear Mr. Hove,

RE: Referencing Your Letter Addressed to Kent Wolf, Dated March 31, 1992 for Specific Safety Requirements at 1126 South Robert Street, West St. Paul, Minnesota DAHL Project # VEMN0601 (Former Conoco Store).

In the above referenced letter, you list eleven specific requirements, which require Dahl's agreement for compliance. It is my understanding, from Terry Maruska, that the building permit will not be approved/issued unless we are able to comply with all of these requirements. At this time, Dahl can and will comply with all of these requirements with the exception of item no. 9. Item number 9 states,

9. "City shall be provided with a copy of appropriate "Variance" as stated to be granted by the Mn Board of Electricity for use of an Un-Listed extension cord to power up free product recovery pump in the Type 1 atmospheres."

Dahl has been in contact with Bill Bickner at the Mn State Board of Electricity by telephone. He has restated to us the fact that there is no flexible cord currently available that fulfills the National Electrical Code's requirements for a flexible cord.

I have researched alternatives for the electrical down well pumps to by pass this problem ie.:

1. UL approved flexible cord which is an SEO type in addition to being water and gas resistant. There are none available.
2. Positive displacement pump which could be set on the surface near the well head. This type of pump will not lift water to the pump from the required depth.

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3. The possibility of using an air operated pump was explored and found to be unacceptable. Air operated pumps will not pump the required flowrate and even if they could, the air volume and quality would require a 50 to 100 hp compressor.

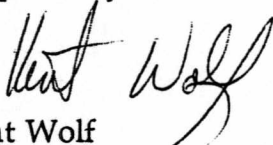
4. A shaft driven pump driven from the surface. Again, the pump shaft length is the hindering factor. *Not really. Pump shafts can go quite deep! 100's of feet.*

Dahl & Associates, Inc. requests that you allow us to proceed, with a your approval, and obtain a building permit. The building would be built for the entire treatment system but used for soil venting only at this time. Soil venting does not require use of any flexible cord in a "type 1 atmosphere." At some future time, the additional equipment can be brought on line when a suitable product or flexible cord can be found. The additional equipment would be inspected by the proper authorities before being put into operation.

We have scheduled October 5, 1992, as a start date for the recovery well and monitoring well to be installed. The underground work will proceed in a timely manner after this work has been completed. The building construction is also scheduled for an October 5, 1992 start. It is imperative that the building to be built before the ground freezes. This will allow us to remediate the soil through the winter months.

It is necessary that you respond to this request by October 18, 1992. This is the last date at which we can negate our obligations to all parties involved. If you have any questions please feel free to call me at 490-2905

Respectfully,



Kent Wolf  
Project Engineer

cc: Terry Maruska, City of West St. Paul  
Kelly Ahlschwede, Conoco Inc.  
David Scheer, MPCA