



# Minnesota Pollution Control Agency

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August 12, 1998

Mr. Chuck Wookan  
Stearns County Park Department  
455 28th Avenue South  
Waite Park, Minnesota 56387

Dear Mr. Wookan:

As you know the Ground Water Monitoring and Assessment Program of the Minnesota Pollution Control Agency has an ongoing ground water monitoring project in the St. Cloud area. The goal of the project is to better understand the impacts different land use types have on ground water and drinking water quality. We collected both soil and ground water information from Quarry Park. Enclosed is a copy of the results from that sampling event. I have also enclosed a summary fact sheet of the results from the first year of the study.

We appreciate you allowing us access to this area to collect this valuable information. If you have any questions about these results, please feel free to contact me at (651) 297-5236.

Thank you.

A handwritten signature in cursive script, appearing to read "Jim Stockinger".

Jim Stockinger  
Field Coordinator  
GWMAP  
Environmental Outcomes Division

JS:jf

Enclosures

QUARRY

well_id	Quarry Park	evnt_date	17-Apr-98	land_use	Undeveloped	depth to water	6	total_depth	12	aluminum	184.20	arsenic	<10.40	boron	<6.50	barium	9.90	berelium	<0.20	calcium	12616.20	cadmium	<1.80	chloride	0.00
chromium	<3.10	cobalt	<2.90	copper	<5.40	dissolved organic carbon	11900.00	fluoride	<200.00	iron	33.90	potassium	534.60	lithium	<4.40	magnesium	4702.80	strontium	47.50	manganese	129.50				
phosphorus	37.60	molybdenum	21.60	sodium	6386.70	nickel	<6.00	nitrate	100.00	lead	<24.50	rubidium	<337.70	sulfur	2550.96	silica	338.80	sulfate	2580.00						
thallium	<3.40	total Kendall Nitrogen	42160.00	vanadium	<4.70	zinc	14.70	temp	11.17	sc_field	0.078	ph	9.24												
oxygen/reduction potential	142.3	dissolved oxygen	5.69																						
<b>&lt; in front of the reported number means it is below the detection limit of the analytical instrument.</b>																									
<b>all units are in part per billion</b>																									
soils information																									
Depth (ft)	Soil Description																								
1	no recovery																								
3	SC coarse sand																								
5	SM/SC sand with gravel																								
7	SM/SC with granite chunk																								
9	SM/SC coarse sand and gravel																								
11	SM/SC coarse sand and gravel																								