

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF: )  
)  
WATER QUALITY STANDARDS AND )  
EFFLUENT LIMITATIONS FOR THE ) R08-9  
CHICAGO AREA WATERWAY SYSTEM ) (Rulemaking – Water)  
AND THE LOWER DES PLAINES RIVER: )  
PROPOSED AMENDMENTS TO 35 ILL.. ) (Subdocket B)  
ADM. CODE PARTS 301, 302, 303 and 304 )

**NOTICE OF FILING**

To:

John Therriault, Assistant Clerk  
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Persons on the attached service list

Please take notice that on the 14<sup>th</sup> Day of June, 2010, I filed with the Office of the Clerk of the Illinois Pollution Control Board the attached **Prefiled Questions of Natural Resources Defense Council to Samuel Dorevitch Concerning Epidemiological Study Technical Reports**, a copy of which is hereby served upon you.



By: \_\_\_\_\_  
Ann Alexander, Natural Resources Defense Council

Dated: June 14<sup>th</sup>, 2010

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**CERTIFICATE OF SERVICE**

I, Ann Alexander, the undersigned attorney, hereby certify that I have served the attached **Prefiled Questions of Natural Resources Defense Council to Samuel Dorevitch Concerning Epidemiological Study Technical Reports** on all parties of record (Service List attached), by depositing said documents in the United States Mail, postage prepaid, from 227 W. Monroe, Chicago, IL 60606, before the hour of 5:00 p.m., on this 14<sup>th</sup> Day of June, 2010.

A handwritten signature in blue ink that reads "Ann Alexander". The signature is written in a cursive style.

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Ann Alexander, Natural Resources Defense Council

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WATER QUALITY STANDARDS AND )  
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Adm. Code Parts 301, 302, 303, and 304 )

**PREFILED QUESTIONS OF NATURAL  
RESOURCES DEFENSE COUNCIL TO SAMUEL DOREVITCH  
CONCERNING EPIDEMIOLOGICAL STUDY TECHNICAL REPORTS**

The Natural Resources Defense Council hereby files questions to Samuel Dorevitch:

1. Please describe generally the steps in conducting an epidemiological study. Where does the Interim Technical Report (“Report”) fit in to that general study timeline and framework?
2. Have you reviewed the prefiled testimony of Dr. Marc Gorelick?
3. Referring to the language in the last paragraph on p. 3 of your prefiled testimony:
  - a. Please describe the analyses of health risks and incidental contact water recreational activities that remain “yet to be completed” in the CHEERS study.
  - b. What other potential differences between CAWS users and G UW users will you seek to identify besides the two examples you provided (age and underlying health conditions)?
  - c. Have you identified, based on the data you now have, any differences between G UW users and CAWS users that may impact your analysis?
4. Will correcting for these confounding factors impact the statistical power of the CHEERS study?
5. Will you also scrutinize the data you have amassed for sources of bias or systematic error?
6. Have you assessed yet the amount of missing data in your participant responses?

7. Did your total study enrollment meet or exceed your sample size power calculation result of 9,330 referenced in your previous testimony?
8. Referencing the first full paragraph on p. 4 of your testimony, please explain in detail the basis for the conclusion that the referenced water quality data did not meet CHEERS project quality criteria.
  - a. What quality criteria were at issue?
  - b. What specific data are to be excluded?
  - c. What was the basis for the conclusion that these data are “implausibly low values for indicator bacteria”?
  - d. Do you have an understanding as to the possible cause(s) of these implausibly low measurements?
9. Referencing the article cited on p. 2 of your testimony published in the June, 2010 issue of Environmental Health Perspectives:
  - a. Are the “long-term research” goals listed on p. 875, col. 1, addressed in the CHEERS study?
  - b. Please discuss in further detail what is meant by the contrast between epidemiologic studies that have described rates of GI illness “generally thought to be mild and self-limited,” versus outbreaks in inland waters that have “included rare but potentially life-threatening infections,” as referenced on p. 873 col. 3.
10. Did you participate in the preparation of the MWRD press release dated May 12, 2010 entitled, “Study Confirms Chicago Waterways not Harmful to Recreational Users”?