

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. )  
Adm. Code Parts 301, 302, 303 and 304 )

**PRE-FILED TESTIMONY OF WILLIAM J. STUBA ON BEHALF OF THE  
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CONCERNING RECREATIONAL DESIGNATIONS OF THE CHICAGO AREA  
WATERWAY SYSTEM**

My name is William J. Stuba. I am currently employed by the Metropolitan Water Reclamation District of Greater Chicago (District) as the Assistant Chief Engineer in the Research and Development Department (R&D). I have been R&D's Assistant Chief Engineer since 2006. As Assistant Chief Engineer, I supervise the Administrative/Industrial Waste Division (IWD) of R&D, which has a staff of 132. Prior to becoming the Assistant Chief Engineer in R&D, I was the Industrial Waste Enforcement Supervisor from 2000 to 2006. I have been employed by the District since 1977. I received a Bachelor of Science in Civil Engineering degree from Bradley University and I am a Licensed Professional Engineer by the State of Illinois.

My responsibilities as the District's Assistant Chief Engineer in R&D include, but are not limited to, the following:

- Control of commercial and industrial waste discharges to the District's sewerage system and waterways through administration of the Sewage and Waste Control Ordinance.
- Recovery of certain District operating, maintenance and replacement costs through administration of the User Charge Ordinance.

- Monitoring the water quality of the Chicago Area Waterway System (CAWS) and the Illinois waterway.

The District's Continuous Dissolved Oxygen Monitoring Program on the CAWS was implemented in 1998. Since that time, IWD staff conduct regularly scheduled trips onboard Pollution Control boats to service the dissolved oxygen (DO) monitoring equipment. The regularly scheduled runs are as follows:

- Tuesdays, from the Stickney Water Reclamation Plant (WRP), upstream on the Chicago Sanitary and Ship Canal (CSSC), South Branch, South Fork, Chicago River, North Branch and North Shore Channel (NSC).
- Wednesdays, from the Stickney WRP, downstream on the CSSC to Sag Junction, upstream on the Calumet-Sag Channel (CSC) and the Little Calumet River North (LCRN) to the Conrail Railroad bridge downstream of the O'Brien Lock and Dam. In the warm weather months, this run often occurs in the reverse direction starting at the boatyard near the I-94 Bridge.
- Thursdays, from the Stickney WRP, downstream on the CSSC to Lemont.

In addition to the DO runs, the IWD boat crew performs other work trips on the waterways. During any trip on the CAWS, the District's Patrol Boat Operators keep daily logs noting any observations of floatable materials, bridge and bank activity, and any recreational activity. In support of the Chicago Area Waterway System Use Attainability Analysis (UAA), the observations of specific recreation activities were begun on June 24, 2003. Observations of the following recreational activities, on or in the water, are recorded on the daily log sheets:

swimming, diving, jumping, skiing, tubing, wading, canoeing, sculling, kayaking, fishing, and recreational boating.

An annual summary of observations of recreational activities on each waterway for the years 2005 through 2007 is attached. Observations were made on 39, 48 and 37 percent, respectively, of the days in each year. For boating type activities, the tally indicates the number of water craft observed, not the number of individuals. For fishing activity, the tally generally indicates observations of fishing from the bank rather than from a boat.

There have been very few observations of primary contact type activities during the three year period. In 2005, three people were observed swimming in the Little Calumet River on June 15, 2005. There were six jet skiers observed; two on the CSC on September 7, 2005, and four on the Chicago River, Main and South Branch, on September 8, 2005. One person was observed swimming, diving or jumping in the CSSC above the junction on September 12, 2005, and two on September 21, 2005. There were no observations of primary contact type activities during 2006. In 2007, there were nine observations of skiing or tubing; six on May 21, 2007 and one on May 23, 2007 on the CSSC above the junction, and two on the Cal-Sag on August 1, 2007.

The summaries of observations for the three years indicate that canoeing, sculling and kayaking were observed primarily in the North Shore Channel and the Chicago River, North Branch. In 2007, no canoeing, sculling or kayaking was observed in the Chicago Sanitary and Ship Canal, or the Cal-Sag Channel, or the Little Calumet River.

A review of the three years of observations indicates there is generally a lack of any trend toward changing recreational use of the CAWS.

*Respectfully submitted,*

*William J. Stuba*

By: *William J. Stuba*

## **Testimony Attachments**

1. Summary of Observations of Recreational Activities for 2005
2. Summary of Observations of Recreational Activities for 2006
3. Summary of Observations of Recreational Activities for 2007

# **Attachment 1**

**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2005**

North Shore Channel						
2005	Swimming, Diving, Jumping	Skiing, Tubing	Wading	Canoeing, Sculling, Kayaking	Fishing	Recreational Boating
January	0	0	0	0	0	0
February	0	0	0	0	1	0
March	0	0	0	0	5	0
April	0	0	0	1	16	0
May	0	0	0	6	0	0
June	0	0	0	2	0	0
July	0	0	0	6	3	0
August	0	0	0	6	8	1
September	0	0	0	6	8	1
October	0	0	0	23	4	0
November	0	0	0	0	0	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>45</b>	<b>2</b>

Chicago River, North Branch						
2005	Swimming, Diving, Jumping	Skiing, Tubing	Wading	Canoeing, Sculling, Kayaking	Fishing	Recreational Boating
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	4	0
April	0	0	0	0	0	0
May	0	0	0	6	11	0
June	0	0	0	0	11	0
July	0	0	0	32	8	2
August	0	0	0	36	25	5
September	0	0	0	8	3	3
October	0	0	0	7	14	2
November	0	0	0	8	5	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>97</b>	<b>81</b>	<b>12</b>

Chicago River, Main and South Branch						
2005	Swimming, Diving, Jumping	Skiing, Tubing	Wading	Canoeing, Sculling, Kayaking	Fishing	Recreational Boating
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	3	11	0
April	0	0	0	4	5	0
May	0	0	0	9	3	0
June	0	0	0	0	3	0
July	0	0	0	1	3	8
August	0	0	0	2	2	10
September	0	4	0	5	0	5
October	0	0	0	0	4	4
November	0	0	0	0	8	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>24</b>	<b>39</b>	<b>27</b>



**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2005**

<b>Chicago Sanitary and Ship Canal, above junction</b>						
<b>2005</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	3	0
April	0	0	0	0	2	0
May	0	0	0	8	14	0
June	0	0	0	0	8	12
July	0	0	0	0	5	9
August	0	0	0	2	2	11
September	3	0	0	0	9	16
October	0	0	0	1	0	7
November	0	0	0	0	0	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>43</b>	<b>55</b>

<b>Chicago Sanitary and Ship Canal, below junction</b>						
<b>2005</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	2	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	3
June	0	0	0	0	0	0
July	0	0	0	0	0	1
August	0	0	0	2	3	15
September	0	0	0	0	0	6
October	0	0	0	0	0	2
November	0	0	0	0	0	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>27</b>

<b>Cal-Sag Channel</b>						
<b>2005</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	5	0
April	0	0	0	0	6	0
May	0	0	0	0	12	4
June	0	0	0	3	16	35
July	0	0	0	2	8	0
August	0	0	0	2	23	18
September	0	2	0	4	12	20
October	0	0	0	0	3	9
November	0	0	0	0	2	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>11</b>	<b>87</b>	<b>86</b>

**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2005**

Little Calumet River						
2005	Swimming, Diving, Jumping	Skiing, Tubing	Wading	Canoeing, Sculling, Kayaking	Fishing	Recreational Boating
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	6	0
April	0	0	0	0	8	0
May	0	0	0	0	12	8
June	3	0	0	2	21	31
July	0	0	0	0	5	0
August	0	0	0	1	13	16
September	0	0	0	0	3	2
October	0	0	0	0	5	3
November	0	0	0	0	4	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>77</b>	<b>60</b>

# **Attachment 2**

**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2006**

<b>North Shore Channel</b>						
<b>2006</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	5	0
February	0	0	0	3	0	0
March	0	0	0	0	4	0
April	0	0	0	3	8	0
May	0	0	0	2	4	0
June	0	0	0	0	2	0
July	0	0	0	10	7	0
August	0	0	0	10	11	0
September	0	0	0	0	2	0
October	0	0	0	11	3	0
November	0	0	0	0	4	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>39</b>	<b>50</b>	<b>0</b>

<b>Chicago River, North Branch</b>						
<b>2006</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	2	0
February	0	0	0	0	8	0
March	0	0	0	4	2	0
April	0	0	0	4	3	0
May	0	0	0	13	13	2
June	0	0	0	5	6	3
July	0	0	0	17	6	2
August	0	0	0	41	21	0
September	0	0	0	32	2	0
October	0	0	0	3	11	0
November	0	0	0	3	4	0
December	0	0	0	1	2	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>123</b>	<b>80</b>	<b>7</b>

<b>Chicago River, Main and South Branch</b>						
<b>2006</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	2	0
March	0	0	0	0	1	0
April	0	0	0	0	23	0
May	0	0	0	3	1	5
June	0	0	0	0	4	1
July	0	0	0	2	8	11
August	0	0	0	7	5	10
September	0	0	0	4	8	16
October	0	0	0	0	0	12
November	0	0	0	0	0	0
December	0	0	0	0	0	1
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>52</b>	<b>56</b>

**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2006**

<b>Chicago Sanitary and Ship Canal, above junction</b>						
<b>2006</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	3	0	0
March	0	0	0	7	0	0
April	0	0	0	8	0	0
May	0	0	0	11	3	0
June	0	0	0	6	4	0
July	0	0	0	7	2	0
August	0	0	0	0	8	0
September	0	0	0	6	19	0
October	0	0	0	5	5	0
November	0	0	0	2	2	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55</b>	<b>43</b>	<b>0</b>

<b>Chicago Sanitary and Ship Canal, below junction</b>						
<b>2006</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	4	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	2	1
June	0	0	0	0	0	3
July	0	0	0	0	3	3
August	0	0	0	0	0	11
September	0	0	0	0	0	2
October	0	0	0	0	0	1
November	0	0	0	0	0	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>21</b>

<b>Cal-Sag Channel</b>						
<b>2006</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	3	2
April	0	0	0	0	11	5
May	0	0	0	0	13	5
June	0	0	0	4	12	7
July	0	0	0	0	17	4
August	0	0	0	0	23	8
September	0	0	0	0	14	23
October	0	0	0	0	6	13
November	0	0	0	0	4	2
December	0	0	0	0	1	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>104</b>	<b>69</b>

**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2006**

Little Calumet River						
2006	Swimming, Diving, Jumping	Skiing, Tubing	Wading	Canoeing, Sculling, Kayaking	Fishing	Recreational Boating
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	5	0
April	0	0	0	0	14	0
May	0	0	0	0	9	3
June	0	0	0	0	12	4
July	0	0	0	0	11	1
August	0	0	0	0	10	6
September	0	0	0	0	2	2
October	0	0	0	0	8	21
November	0	0	0	4	2	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>73</b>	<b>37</b>

# **Attachment 3**

**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2007**

<b>North Shore Channel</b>						
<b>2007</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	2	0
February	0	0	0	0	0	0
March	0	0	0	3	14	0
April	0	0	0	1	12	1
May	0	0	0	0	20	0
June	0	0	0	8	8	0
July	0	0	0	13	17	0
August	0	0	0	9	6	0
September	0	0	0	3	6	0
October	0	0	0	1	6	3
November	0	0	0	0	5	0
December	0	0	0	0	1	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>97</b>	<b>4</b>

<b>Chicago River, North Branch</b>						
<b>2007</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	1	0	0
April	0	0	0	4	6	1
May	0	0	0	12	13	2
June	0	0	0	9	5	8
July	0	0	0	7	10	8
August	0	0	0	10	12	3
September	0	0	0	44	13	5
October	0	0	0	9	16	0
November	0	0	0	0	4	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>96</b>	<b>79</b>	<b>27</b>

<b>Chicago River, Main and South Branch</b>						
<b>2007</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	3	0	0
May	0	0	0	0	7	7
June	0	0	0	3	7	13
July	0	0	0	0	0	7
August	0	0	0	10	4	17
September	0	0	0	7	13	0
October	0	0	0	11	3	2
November	0	0	0	0	0	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>34</b>	<b>46</b>



**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2007**

<b>Chicago Sanitary and Ship Canal, above junction</b>						
<b>2007</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	3	0
March	0	0	0	0	3	0
April	0	0	0	0	2	1
May	0	7	0	0	2	13
June	0	0	0	0	4	6
July	0	0	0	0	16	6
August	0	0	0	0	10	9
September	0	0	0	0	2	22
October	0	0	0	0	6	15
November	0	0	0	0	0	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>72</b>

<b>Chicago Sanitary and Ship Canal, below junction</b>						
<b>2007</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	3	0
April	0	0	0	0	0	0
May	0	0	0	0	0	3
June	0	0	0	0	0	0
July	0	0	0	0	3	0
August	0	0	0	0	0	2
September	0	0	0	0	0	2
October	0	0	0	0	0	1
November	0	0	0	0	0	0
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>8</b>

<b>Cal-Sag Channel</b>						
<b>2007</b>	<b>Swimming, Diving, Jumping</b>	<b>Skiing, Tubing</b>	<b>Wading</b>	<b>Canoeing, Sculling, Kayaking</b>	<b>Fishing</b>	<b>Recreational Boating</b>
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	1	2
May	0	0	0	0	9	20
June	0	0	0	0	8	10
July	0	0	0	0	9	3
August	0	2	0	0	16	26
September	0	0	0	0	8	16
October	0	0	0	0	9	14
November	0	0	0	0	0	2
December	0	0	0	0	0	0
<b>Yearly Total</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>93</b>

**Metropolitan Water Reclamation District of Greater Chicago  
Summary of Observations of Recreational Activities for 2007**

Little Calumet River						
2007	Swimming, Diving, Jumping	Skiing, Tubing	Wading	Canoeing, Sculling, Kayaking	Fishing	Recreational Boating
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	1
May	0	0	0	0	5	8
June	0	0	0	0	20	14
July	0	0	0	0	7	3
August	0	0	0	0	14	14
September	0	0	0	0	6	2
October	0	0	0	0	4	11
November	0	0	0	0	0	0
December	0	0	0	0	0	1
<b>Yearly Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>54</b>