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Supporting information

Table Captions

 Table S1. The water characteristics of the lake

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|---|---------|-----|-----------|---------|---------|---------|---------|---------|---------|
| Items | NDMA | pН | Turbidity | DOC | Ammonia | Nitrite | Nitrate | TN | DON |
| | (µg/ L) | | (NTU) | (mg/ L) |
| Value | 4.4 | 7.7 | 3.5 | 4.68 | 0.11 | 0.005 | 0.23 | 0.91 | 0.565 |

Figure Captions

Fig. S1 Ozone decay efficiencies in milli Q water, pH = 7.0, $T=25 \pm 2$ °C.

Fig. S2 Remaining DMNZD (m/z 160) during ozonation of DMNZD with 0, 0.1 and 1mg/L HA

 $[DMNZD]_0 = 50 \ \mu M$, $[O_3] = 1 \ mg/L$, pH = 7.0.

Fig. S3 Remaining DMNZD (m/z 160) during ozonation of DMNZD with 0, 1 and 4 mg/L O₃.

 $[DMNZD]_0 = 50 \ \mu M$, $[HA] = 0 \ mg/L$, pH = 7.0.

Fig.S4 Verifying DMNZD ozonation product (DMA) using retention time as well m/z

confirmation with DMA authentic standard.

Fig.S5 Verifying DMNZD ozonation product (UDMH) using retention time as well m/z confirmation with UDMH authentic standard.



Fig.S1 Ozone decay efficiencies in phosphate buffers, pH = 7.0, $T=25 \pm 2$ °C.



Fig. S2 Remaining DMNZD (m/z 161) during ozonation of DMNZD with 0, 0.1 and 1mg/L HA $[DMNZD]_0 = 50 \ \mu\text{M}, [O_3] = 1 \ \text{mg/L}, \ p\text{H} = 7.0.$



Fig. S3 Remaining DMNZD (m/z 161) during ozonation of DMNZD with 0, 1 and 4mg/L O₃. $[DMNZD]_0 = 50 \ \mu\text{M}, [HA] = 0 \ \text{mg/L}, pH = 7.0.$



Fig.S4 Verifying DMNZD ozonation product (DMA) using retention time as well m/z confirmation with DMA authentic standard.



Fig.S5 Verifying DMNZD ozonation product (UDMH) using retention time as well m/z confirmation with UDMH authentic standard.