



Supplemental material

Table S1. Pesticides and degradate compounds identified on the Eastern shore by the U.S. Geological Survey, 2001-2004. Adapted from data published by the U.S. Geological Survey [19].

| Pesticides | Degradate compounds |
|-----------------|-----------------------------|
| Acetochlor ESA* | 2-Hydroxyatrazine* |
| Dinoseb* | Alachlor ESA* |
| Flumetsulam* | Alachlor OA* |
| Imazaquin* | Deethyldeisopropylatrazine* |
| Imazethapyr* | Deisopropylatrazine* |
| Imidacloprid* | Dimethenamid ESA* |
| Propoxur* | Flufenacet OA* |
| | Metolachlor ESA* |
| | Metolachlor OA* |

*Substance has agricultural applications

Table S2. Inorganic compounds, radionuclides, volatile organic compounds and synthetic organic compounds that were detected at least once either above 50% or 100% of their MCL in Wicomico County public water system (1991-2003) [24-28].

| Substance | Detected at levels >50% MCL | Detected at levels >100% MCL |
|--------------|-----------------------------|------------------------------|
| IOC | Nitrate* | Nitrate* |
| IOC | Arsenic* | |
| IOC | Cadmium | |
| Radionuclide | Radon-222 | Radon-222 |
| VOC | Tetrachloroethylene | Tetrachloroethylene |
| VOC | Benzene | Benzene |
| SOC | 1,2-Dibromo-3-Chloropropane | |

MCL = Maximum contaminant level
IOC = Inorganic compound
VOC = Volatile organic compound
SOC = Synthetic organic compound

*Substance has agricultural sources/applications

Table S3. Inorganic compounds, radionuclides, volatile organic compounds and synthetic organic compounds that were detected at least once either above 50% or 100% of their MCL in Worcester 3County public water system (1991-2005) [30-32].

| Substance | Detected at levels >50% MCL | Detected at levels >100% MCL |
|--------------|-----------------------------|------------------------------|
| IOC | Nitrate* | |
| IOC | Arsenic* | |
| Radionuclide | Gross Alpha | |
| Radionuclide | Radon-222 | |
| VOC | Benzene | Benzene |
| VOC | Methylene Chloride | |
| VOC | Methyl-tert-butyl-ether | Methyl-tert-butyl-ether |
| SOC | DI(Ethylhexyl)Phtalate | |
| SOC | Trihalomethanes | Trihalomethanes |
| SOC | Haloacetic Acids | |

MCL= Maximum contaminant level
IOC = Inorganic compound
VOC = Volatile organic compound
SOC = Synthetic organic compound

*Substance has agricultural sources/applications

Table S4. Inorganic compounds, radionuclides and volatile organic compounds that were detected at least once either above 50% or 100% of their MCL in Somerset County public water system (1994-2002) [34-35].

| Substance | Detected at levels >50% MCL | Detected at levels >100% MCL |
|--------------|-----------------------------|------------------------------|
| IOC | Fluoride | Fluoride |
| IOC | Thallium | |
| IOC | Lead | |
| Radionuclide | Radon-222 | |

MCL = Maximum contaminant level [33,34].
 IOC = Inorganic compound
 VOC = Volatile organic compound
 SOC = Synthetic organic compound
 *Substance has agricultural sources/applications