U2. TEMA 3

QUÍMICA DEL AGUA. FACTORES QUE AFECTAN A LA CALIDAD DEL AGUA

- 3.1 INTERACCIONES DE FASES EN EL AGUA: Reconoce las propiedades de las diferentes sustancias sólidas que se encuentran en el agua.
- 3.2 TRATAMIENTO Y POTABILIZACIÓN DEL AGUA: Describe los procesos químicos que ocurren en las etapas durante el tratamiento de aguas residuales.
- 3.3 MÉTODOS Y NORMATIVAD: Determina la calidad del agua teniendo en cuenta la normatividad vigente en el país.



1. INTERACCIONES DE FASES EN EL AGUA

La mayoria de los fenómenos químicos y bioquímicos importantes en el agua implican interacciones entre las especies que se encuentran en el agua y aquellas que se encuentran en otra fase (sólidos suspendidos o coloides).

Sedimentos en agua

Los sedimentos son capas de materia sólida finamente divididas que cubren los fondos de rios, arroyos, lagos, embalses, bahías, estuarios y océanos. Los sedimentos tipicamente consisten en mezclas de minerales finos, medios y gruesos, incluyendo arcilla, limo y arena, mezclados con materia orgánica. Su composición puede variar desde ser de materia mineral pura a materia predominantemente orgánica.

Los sedimentos son reservorios de una variedad de detritus biológicos, quimicos y contaminantes en cuerpos de agua y son depósitos de contaminantes, como metales pesados y compuestos orgánicos tóxicos. De particular preocupación es la transferencia de especies químicas de los sedimentos a la cadena alimenticia acuática de organismos que viven gran parte de su vida en contacto con sedimentos o que viven en ellos. Entre los organismos vivos que viven bajo dichas condiciones se encuentran camarones, cangrejos, gusanos, almejas, etc. La importancia estudiar a los sedimentos radica en estos organismos, dado que se encuentran cerca del base de la cadena alimenticia.

Formación de sedimentos

Los procesos físicos, químicos y biológicos pueden resultar en la deposición de sedimentos en las regiones inferiores de los cuerpos de agua. Los sedimentos pueden formarse por simples erosiones fluviales o también por reocciones de precipitación

Los sedimentos de carbonato de calcio se pueden formar cuando el agua está enriquecida de dióxido de carbono y posee un alto contenido de calcio (dureza), lo que genera una reacción entre ambas y produce dióxido de carbono, el cual es liberado a la atmósfera:

$$Ca^{+2} + 2HCO_3^- \rightarrow CaCO_3(s) + CO_2 + H_2O$$

También se puede formar sedimentos de carbonatos de calcio cuando el pH se eleva debido a reacciones fotosintéticas,

$$Ca^{*2} + 2HCO_3^- + h\nu \rightarrow \{CH_2O\} + CoCO_3(s) + O_2$$

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