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Unmanned aerial vehicle map of Last Chance Lake, British

Columbia, Canada, in October

2021. This map demonstrates

many of the topics discussed in

this issue: white-colored sulfate and carbonate minerals cover

the dry lake bed, localized brine pools concentrating chem-

istry and biology even at this

and the broken linear feature

near the top of the map is the

effort to mine the soda from

OF CALGARY DEPARTMENT OF

GEOSCIENCE.

remains of an early 20th century

these lakes. PHOTO: UNIVERSITY

extreme extent of evaporation,

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Dry, Salty, and Habitable: The Science of Alkaline Lakes Benjamin M. Tutolo and Nicholas J. Tosca



How to Make an Alkaline Lake: Fifty Years of Chemical Divides Nicholas J. Tosca and Benjamin M. Tutolo





Making Salt from Water:



Cycles in Alkaline Soda Lakes Marianne Haines, Varada Khot, and Marc Strous



High Carbonate Alkalinity Lakes on Mars and their Potential Role in an Origin of Life Beyond Earth Joel A. Hurowitz, David C. Catling, and Woodward W. Fischer

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