

## Mines, deposits and prospects

- Potash from playa lake brine
- Potash from seawater brine
- Potash in glauconite-rich sedimentary rock
- Potash in alunite
- Potash in ultrapotassic rock

— Highway

■ Town



## Evaporite brine related potash system – GIS layers

Potassium is a critical nutrient for plant growth and is vital to world agriculture. Potassium enriched brines contain the most widely defined and in-development potash resources in Western Australia; and can provide a more cost-efficient method of producing the premium fertilizer sulfate of potash. These brines are located in semi-arid and arid zones in Western Australia, where they are closely associated with inland saline lakes, playas and paleovalleys.

This data package contains data from the Mineral Systems Atlas (MSA) evaporite brine-related potash system, which provides exploration relevant spatial data for prospectivity and targeting analysis. Mineral systems within the Atlas are described through an online MSA Guide and standalone GSWA Record 2022/15. The Atlas emphasizes critical processes and their mappable proxies related to mineralization. All data are curated and symbolized to focus on the related mineral system. The package includes mineral occurrences, geochemistry, hydrogeochemistry, hydrology, lithology, geophysics and climate data.

<https://dasc.dmirs.wa.gov.au>

Statewide spatial datasets - [GDA2020]

Mineral Systems Atlas

Evaporite brine related potash system - [GDA2020]

Last Updated	Size	File Format	
16/11/2022	1.10 GB	ESRI File Geodatabase (with QGIS file)	<a href="#">Download</a>
16/11/2022	1.15 GB	ESRI Shape File (with QGIS file)	<a href="#">Download</a>

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View (online): Go to the Mineral Systems Atlas (<https://msamaps.dmp.wa.gov.au/msamaps>)

Free (online): Go to the Data and Software Centre (<https://dasc.dmirs.wa.gov.au>) > Statewide Spatial Datasets > Mineral Systems Atlas > Evaporite brine related potash system



Government of Western Australia  
Department of Mines, Industry Regulation  
and Safety

Geological Survey of  
Western Australia

