

Table 17.2-10 Potential Root-zone Suitability Criteria and PATFM Characteristic Analytes

Characteristic analytes	OSM southwestern U.S. criteria	Navajo Mine site-specific criteria ³
Boron	≤10 ppm	na
Total selenium	≤0.8 ppm	≤2.5 ppm
Soluble selenium	≤0.15 ppm	≤0.26 ppm
pH	≥5.5 and ≤9.0	≥5.0 and ≤9.0
Acid-base account (Acid-base potential ¹)	>-5 t CaCO ₃ /1000 t	≥-5 t CaCO ₃ /1000 t
Saturation	≥ 20% and ≤90%	≤85% OR ≤100% only if EC≥4 mmhos/cm
Electrical conductivity (EC)	≤12 mmhos/cm	≤16 mmhos/cm
Sodium adsorption ratio (SAR)	sandy loam ≤20 loam, clay loam ≤16 40% clay ≤14	≤18 OR ≤40 only if EC ≥4 mmhos/cm
Texture	≤45% clay	≤50% clay
CaCO ₃		% no criteria
Neutralization potential	t CaCO ₃ /1000 t	no criteria
Total sulfur		% no criteria
Total sulfur acid potential	t CaCO ₃ /1000 t	no criteria
Sulfate ²		% no criteria
Organic sulfur ²		% no criteria
Pyritic sulfur ²		% no criteria
Acid-base pyritic sulfur ²	t CaCO ₃ /1000 t	no criteria

¹ Total sulfur and pyritic sulfur acid-base potential are considered under this criteria.

² These analytes including pyritic sulfur acid-base potential are analyzed when total sulfur acid-base potential is less than zero.

³ Navajo Mine site-specific criteria are found in Navajo Mine Permit NM-0003F (BNCC 2009).